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WALLACES' FARMER AND Iowa Homestead

Good Farming *Clear Thinking* *Right Living*

THE Iowa farm family in the picture above probably wouldn't trade places with anybody in the world. And there are lots of other Iowa folks who wouldn't, either.

For many of you, this picture of the Clarence Egan family, of Crawford county, Iowa, is almost like a mirror. It's a typical winter evening scene: Mom with her sewing; Pop with his farm paper and easy chair; Joanne, Johnny and Bob busy with "Operation Popcorn."

Iowans have good reason to feel satisfied. With the help of modern methods and good weather, they've turned out gigantic crops this year. That includes nearly 700 million bushels of corn—almost one-fifth of the nation's record total.

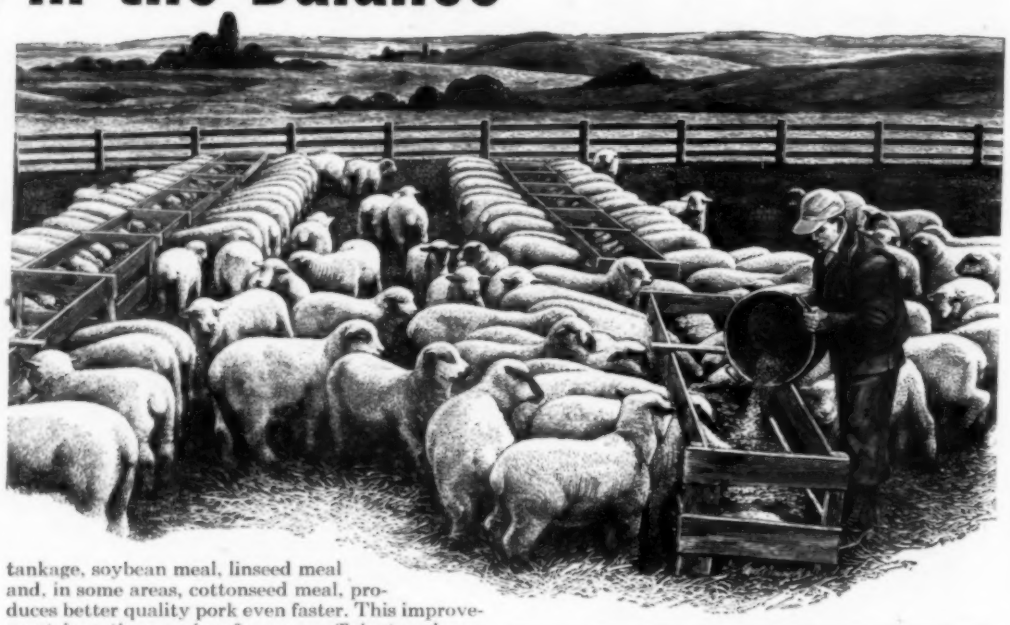
New machinery helped crib that crop in a hurry, too—giving more time for living-room relaxation. And, for an increasing number of farmers, that relaxing can be done in homes as modern and as comfortable as any you can find.

Besides, those big piles of corn mean Iowa farmers can plan for next year with a sense of security about the job they like best—turning corn into meat.

DECEMBER 4, 1948

IOWA'S LEADING FARM NEWSPAPER

Their Future is in the Balance



Meat animals are what they eat! It takes a balanced ration to keep them healthy, growing and gaining. Successful livestock men know this. Hundreds of controlled feeding experiments prove it. Morrison, the great feeding authority, states—"Lambs on unbalanced rations require 46% more corn and 15% more hay for each 100 pounds of gain!"

Balanced rations for hogs show spectacular results. Anyone can make a lot of fat and a little lean with corn and water. But that's the slow, expensive way. It takes a pile of corn to do it. But with corn *balanced with proteins and minerals and vitamins* hogs can be fed to market weights in six months or less. Think of the corn you can save—11 bushels of corn alone will make 100 pounds of pork, but only 6½ bushels of corn plus 35 pounds of protein supplement will do the same job faster.

Scores of feeding trials prove that a *balanced ration* pays with steers and lambs, whether on the range or in the feedlot. In fact, the same basic principle applies to all livestock and poultry. Forage and other homegrown feeds, properly balanced with proteins and minerals, make more and better meat pounds at less cost.

Continuous research affords new and exciting means of using available materials in improved rations for livestock. At first, tankage alone was used to add protein to hog rations. It did a good job. Then research proved that a combination of proteins is better than one kind alone. A mixture of tankage, soybean meal, linseed meal and, in some areas, cottonseed meal, produces better quality pork even faster. This improvement in rations makes for more efficient and economical use of proteins. But what about vitamins and minerals? Here, too, many advancements in techniques of supplying these nutrients have been made. Dehydrated alfalfa, milk solids, vitamin oils, and some synthetic sources provide essential vitamins and other factors. Mineral balance is necessary, too. Salt, the universal need, supplies sodium and chlorine. Steamed bone meal supplies calcium and phosphorus, and other major minerals. With these, alert research men now are combining other known essential elements, such as cobalt, manganese, iron, iodine, copper, and magnesium, to turn slow gainers into fast gainers.

How good are you kids at knowing the names of the animals used to help you play games?

In baseball, what part of a *steer* do you wear? Why, the *glove* has a padding that's made from its hair!

In what game would you say the *pig* best fits in? Yes, football, that's right—the ball's called a "pigskin"!

And the last time you walloped a tennis ball—wham! Did you know that the racket strings came from a—*lamb!*

By-products that meat packers save every day increase livestock values, make stockmen more pay.

Martha Logan's Recipe for
BAKED HAM SLICE

Cover a 2-inch-thick slice of ham with honey or orange marmalade. Add 1 cup water or fruit juice. Bake in a covered pan in a slow oven (325° F.) about 25 to 30 minutes per pound (about 2 hours).

Soda Bill Sez:

You can't make money last unless you make it first!
What America needs is less soiled conversation and more soil conservation.

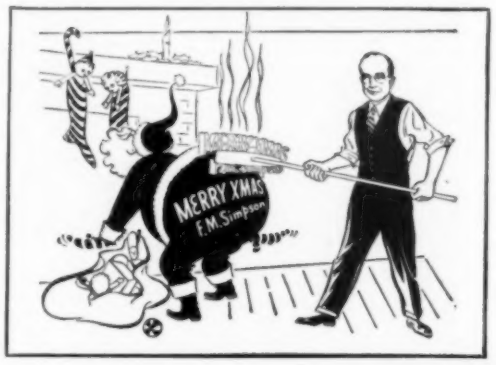
Quotes of the Month

It's cheaper to warm water with fuel in the tank heater than with corn in a steer.
E. T. Robbins, *University of Illinois*

For proper nutrition of brood sows, feed good quality alfalfa hay liberally, ground or otherwise. Use at least 15% in mixed rations for sow, or self-feed the hay in a rack.
Wisconsin Agricultural Experiment Station

A flock of 300 hens will consume 17 tons of water annually. If possible to install, running water in a laying house will save a lot of walking, carrying and plain hard work.
M. A. Seaton, *Kansas State College*

A phosphorus supplement fed to ewes in amounts to satisfy their requirements would increase their vitality, help maintain their weight during the winter, and increase the percentage lamb crop.
Farm and Home Science, Utah



First Calves Forecast Production

Marvin Koger

by Marvin Koger, Animal Husbandman
New Mexico A. & M. Experiment Station

Want to estimate efficiency of calf production in your cow herd? The cow's *first calf* tells more than her good looks. In a New Mexico study, we took the weaning weights of first calves weaned by three-year-old cows. These weights were compared with the weaning weights of calves raised by these same cows in the next four years. Cows and calves were placed in five groups (according to the weaning weight of first calves). Here's the 5-year record:

Groups	Average First Calf Weight From 3-Year-Old Cows	Average Calf Weights From Same Cows for Next 4 Years
Group 1	321 pounds	404 pounds
Group 2	349 pounds	417 pounds
Group 3	383 pounds	430 pounds
Group 4	409 pounds	443 pounds
Group 5	441 pounds	456 pounds

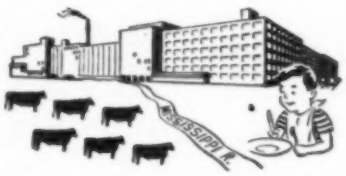
Considering only the two extremes, Group One and Group Five, it was shown that breeding stock picked from Group One could be expected to produce, for the next four years, calves that had a yearly average weaning weight of only 404 pounds. But those picked from Group Five should produce calves with a yearly average weaning weight of 456 pounds; 52 pounds more than Group One.

These figures show that later calves are apt to be a repeat performance of the cow's first calf. Cows doing poorly their first calving year continued to produce the lightest group of calves. They were poor risks. Culling cows with light, scrubby first calves would be well repaid in greater profit through more efficient production. If you would like a full report on this experiment, write to New Mexico A. & M. Experiment Station, State College, N. M.

"It takes a *big* tractor to pull a heavy-duty plow"

This large tractor is especially designed to handle the big and heavy jobs—easily, efficiently, economically.

This little tractor is good when used for its proper purposes. But it is not built to pull such a heavy plow.



It's the same way with business, including the meat-packing business. There's need for all kinds and sizes of packing plants—large ones as well as small ones. Two-thirds of the livestock is produced west of the Mississippi River. Two-thirds of the meat is eaten east of it. Bringing meat and meat-eaters together is a *big job!*

That's where the "big tractor" proves its worth. The country needs nation-wide meat packers like Swift & Company. For with processing plants located where most of the livestock is raised, *we can help bridge the gap between western range and feedlots and the kitchen range.* It is an important job, filling the vital needs of producers and consumers. As we have served them over the years, we have grown. And as we have grown, so also our *ability to serve* has grown.

P. M. Jarvis
P. M. JARVIS
Vice-President, Swift & Company

Swift & Company
UNION STOCK YARDS, CHICAGO 9, ILLINOIS

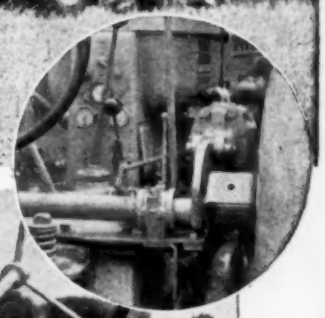
Nutrition is our business—and yours

WALLACES' FARMER AND IOWA HOMESTEAD, December 4, 1948 (Volume 73, No. 23). Published first and third Saturdays of each month, by the James M. Pierce Corporation, Des Moines, Iowa. Subscription price, two years for One Dollar. Entered as second-class matter October 19, 1929, at the post office in Des Moines, Iowa, under the act of March 3, 1879. Copyright, 1948, by the James M. Pierce Corporation.

Announcing the NEW MODEL "Z"

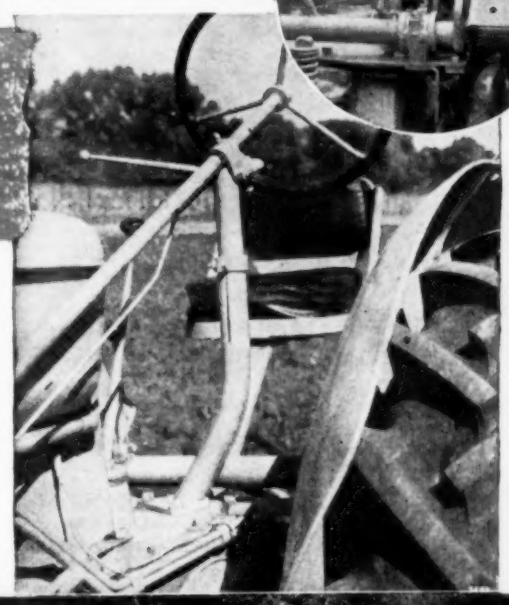
MINNEAPOLIS-MOLINE MODERN MACHINERY

VISIONLINED TRACTOR



UNI-MATIC POWER — Gets More Work Done Every Hour

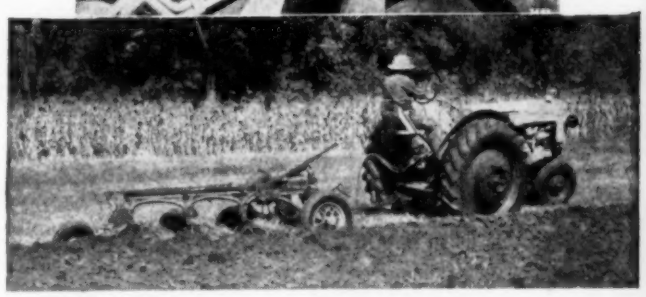
MM supplies a new hydraulic control mechanism for raising or lowering and controlling farm implements. Uni-Matic controls permit pre-selection or changing of tool depth or height of cut. It has tested safety features for both operator and machines, and frees the operator's hands and feet for greater safety. Operation of the hydraulic mechanism is controlled by an easy-to-reach, simple-to-use, finger-tip lever. Uni-Matic Power provides "push-button" farming, reducing fatigue, labor, and drudgery. Available as optional equipment on MM's famous Z, U, R and G Visionlined Tractors.



MM's new model Z tractor is *packed with power* . . . greater piston displacement makes the new Z a heavy-duty tractor for heavy-duty work . . gives the new Z a new zest for the roughest, toughest farm task! Around 10% more power puts the new Z in the 3-bottom-plow power class in most conditions. It is built to do the job faster with a reserve of stepped-up power for drawbar, belt, and power take-off equipment. Moreover the new Z is equipped with Uni-Matic Power—MM's new hydraulic mechanism for accurate height and depth control of mounted and pull behind implements.

Other improved features of the new Z assure continued top performance with greater versatility, economy, and long-life dependability. Larger 11:38 rear tires give greater traction . . . radiator is strongly constructed with cast top and bottom tanks, steel side frames, and a core that can be easily removed.

The new Z steers with "new car" ease and simplicity. The steering wheel is adjustable for height. The new Z provides the *right* speed for the job with five forward speeds (2.4, 3.6, 4.6, 6.3, and 13.1 mph) and 2.2 mph in reverse. High-turbulence combustion engine with controlled cooling, full pressure lubrication and with a balanced 3-bearing crankshaft delivers smooth power. The new Z is strongly constructed throughout for maximum service year after year, and all parts are easier to inspect and to service when necessary.



Four Front End Styles . . . Adjustable Rear Wheel Tread

Four front end styles adapt the new Z to any farming method. Model ZAU is a universal type tractor with two front wheels close together—The ZAN is a tricycle type universal tractor with one front wheel—ZAE has a front axle permitting tread adjustment from 56" to 84". Rear wheel tread adjustment on these three models is 54" to 88". The ZAS is a standard four wheel model—wheel tread 48".

The same approved Quick-on—Quick-off and Attachor tools are available with the Z for easier, safer Visionlined row-crop work . . Safer for the crops because all tools are in full view of the operator without awkward neck stretching to avoid running down rows . . Safer operation with smooth, positive MM Uni-Matic Power.

MINNEAPOLIS-MOLINE MODERN MACHINERY

MINNEAPOLIS-MOLINE
POWER IMPLEMENT COMPANY
MINNEAPOLIS 1, MINNESOTA

MOORMAN RESEARCH has one objective — to develop products that help animals to more efficiently convert home-grown *feeds* into human *foods*.

How to make a Balanced Dairy Ration for less than $15 a ton out-of-pocket cost

. . . a little goes a long way!

Why you can be certain of your ration with this mineralized concentrate

All you do is add MoorMan's Cow Mintrate to home-grown grains and legume hay—and supply salt. It's as simple as that! And at the same time you can be sure of two things about this ration: (1) you *know* it's top quality, for you're using your *own* home-grown feeds, (2) your cows are getting *all* highest quality proteins, minerals and vitamins they need for heavy milk production, for they're getting MoorMan's. And in this process, you can regulate your protein content to any desired level.

MOORMAN'S COW MINTRATE is a fully mineralized protein concentrate with vitamins D and G added. It supplies a combination of 8 protein feeds—including the famous "booster," *UREA*. It contains, as well, *MoorMan's Top-Kream Minerals* — 15 different mineral ingredients—all the minerals, except salt, needed to keep cows in top condition and top production. Another development of Moorman research — MoorMan's Cow Mintrate enables you to balance your own dairy ration for less than $15 a ton out-of-pocket cost. Watch for your MoorMan Man and get MoorMan's Cow Mintrate from him on his next stop. Moorman Mfg. Co., Quincy, Ill.

MoorMan's

Since 1885

CUSTOM-MADE MINERAL SUPPLEMENTS AND PROTEIN CONCENTRATES

—developed and proved on the world's largest mineral experiment farm.

You Can "Stick" Cattle On Corn

Here Is a Schedule For Starting Cattle To Be Full-Fed Corn

TO THE EDITOR: Tell me something about the tricks in cattle feeding. I've got corn on the ground. Also some young steers and heifers. But I have never fattened cattle for market.—G. V., Jones County, Iowa.

If you're a beginner in cattle feeding, you do need answers to a few questions. Even if you were an old-timer, a few reminders might not be amiss for a year like this.

The big corn crop may tempt some to throw corn into cattle in an attempt to make them fat in a hurry. The plan may be good, but it has some dangers.

Corn is a high-powered feed. Cattle will eat more corn at first than their systems can handle. The result may be founder, scours, a period of slow gains—or death.

Cattle can get "stuck" on corn, as old-time feeders used to say. That's why the beginner needs some questions answered.

How do you start cattle on corn when you expect to put them on full feed?

First, give the cattle all the hay, straw, fodder or other roughage they will eat. Good hay is best, of course. Big cattle can eat fodder or straw, at least in part. Silage is good, but if silage is used the corn in the silage must be taken into account.

With yearling cattle and shelled corn, start feeding 2½ pounds per day. That is about a bushel per day for 22 head. Calves should get a little over half as much.

Plenty of good hay comes first for cattle to be full-fed corn.

Is there a safe rate at which the corn ration can be increased for fattening cattle?

Experienced men say: "Never put cattle on full feed in less than three weeks." Rex Beresford, of Iowa State College, has a schedule which will about do that.

Starting with 2½ pounds a day per head, increase the corn 1 to 1½ pounds a day till the cattle are getting 1¾ pounds per day for each 100 pounds of weight.

Let's figure it out on a 650-pound steer. He would start at 2½ pounds. Adding a pound of corn per day, he would get 11½ pounds on the tenth day. That's about 1¾ pounds per 100 pounds of steer.

Ten days after starting on feed, 22 head of 650-pound cattle would be eating 4½ bushels of corn per day. That will seem plenty fast to many cattle feeders.

At what point in the feed increase is there the most danger of hurting cattle by feeding too much corn?

Just as you approach full feed. So the corn must be increased more slowly. Beresford recommends this schedule:

If 650-pound steers are eating 11½ pounds of corn on the tenth day, then increase the feed a pound per steer every five days until the cattle are eating two pounds of shelled corn per day for each 100 pounds weight.

This would mean that on the 15th day the steers would be eating 12½ pounds of shelled corn, and on the 20th day they would get 13½ pounds. This would be two pounds a day for each 100 pounds of steer, which Beresford says is an average full feed.

Is it safe to open a self-feeder or keep corn in bunks after cattle are gradually brought to two pounds of corn for each 100 pounds weight?

Nearly every experienced feeder will say "No." Right now is the danger point. Full feed of corn varies with cattle.

Add a pound of corn per head once a week. Stick to the gradual increase, even tho corn is left in the bunks on some days.

Old-time cattle feeders used to say that two-year-olds would eat a little less than a half-bushel of corn when on full feed. Yearlings would eat a little less than a third, and calves not quite a fourth.

Your cattle may not eat this much, but you can't be sure they are on full feed very far below that amount of corn a day.

Is starting cattle on a full corn feed the same problem whether shelled corn, ground shelled corn, or ground ear corn is fed?

Greatest danger in hurting cattle to be put on full feed is with shelled corn or ground shelled corn. The schedule above is based on shelled corn.

If ground ear corn is fed, the time for putting cattle on feed can be cut down one-third, Beresford says.

But if you put cattle on full feed of ground ear corn, and change to shelled, you've got to be careful again. Start by mixing one bushel of shelled corn in 10 bushels of corn and cob meal. Safety says take two or three weeks for the change.

Do you have to increase the protein feed slowly, too?

Protein feed doesn't hurt cattle in the way corn does. If you expect to feed 1 to 1½ pounds of protein daily with corn, you can start with half of it on the first day. In four or five days, give the cattle the full protein feed.

Protein for fattening cattle is more important at the start than at the end of the feeding period, says Beresford. He thinks it pays to feed protein straight thru.

Protein feed should be varied according to the quality of roughage fed to fattening cattle. With good alfalfa or clover hay, a pound per day might be enough. With stemmy hay, straw or fodder as roughage, the protein feed might need to be twice that amount.

Are there special feeding tricks?

Neighbors often say of a farmer: "He sure has a knack of making cattle fat. Wonder what he feeds 'em?"

This kind of farmer can often be seen watching his cattle eat after he has fed them. He does everything he can to keep them comfortable. He likes his cattle. That may be the special trick.

Editorials

How Many Spring Pigs Do You Want?

HOW many sows and gilts do you have bred for spring litters? Our advice is this: Get as many bred for spring litters as your equipment, labor and feed will permit you to handle.

This does not mean that we are urging every farmer to expand hog production to the limit.

Nobody can make a final estimate on this point in early December. Wait until the federal December pig survey is reported. See how business looks for 1949.

If prospects continue to look good, hang on to every bred sow. If things don't look so good, send some of the sows to market.

We'll talk about these later prospects in future issues. But, right now: Get those sows and gilts bred!

You can always change your mind later —in the direction of fewer sows. But you can't change your mind the other way.

A farmer who has 50 sows bred for April litters can always send 20 to market in February. But a farmer who has only 30 sows bred for April litters can't change his mind in February and decide to have 50 sows farrow in April.

You can't hurry a gestation table.

Put yourself in a position so that you can make your final decision in February —either way.

HE SAYS "PIE"

Ask a farmer about his favorite dessert, and, nine times out of ten, he'll say, "Pie." Sometimes he gets it. Mrs. Harold Doyen, of Calhoun county, Iowa, has a lemon pie ready. More folks, this month, are eating pumpkin.

Nobody Voted For State Tax On Property

FARMERS are getting used to being double-crossed. But, naturally, they still don't like it. Now it's the Iowa bonus amendment.

When the state bonus was up for a vote, farmers were assured that the reference to a state levy on property was just to make the bond sale legal. It was explained that the legislature could and would arrange to pay off the bonus in other ways.

Now the election is over, the bonus has been voted, and immediately somebody pops up to say: "The voters authorized a state levy on property to pay the bonus. And that's what the legislature must do."

The voters authorized the property levy to pay the bonus because the Iowa constitution requires the authorization of a direct tax along with a bond vote. Farmers were told that other methods of paying the bonus would actually be used.

If the legislature doesn't want a peck of trouble, it will work hard to figure out some way to handle the bonus without a property levy.

County primary road bonds authorized a property levy. But the bonds were paid with a gas tax. The bonus can be paid without a property tax.

About all the vote on the bonus proved was that the state as a whole thought it was a good idea to give the veterans a hand. But it is up to the legislature to figure out how to meet the costs.

Any legislator who thinks the vote authorized him to put a levy on general property had better ask the folks around home about it before he comes to Des Moines. He'll soon learn different.

Should Food Be Cheaper?

Consumers Want Cheaper Food, But Farmers Fear Price Drop

CONSUMER protest against high prices and farmer fear of lower prices both helped to re-elect President Truman.

How can the administration develop a farm policy that will suit both crowds?

It isn't as hard as it looks.

If farm product prices drop to 90 per cent of parity, as they will in many cases in 1949, this will mean a considerable cut in living costs.

Farm products now are 111 per cent of parity. It would take nearly a 20 per cent cut to put farm products on support levels of 90 per cent.

Hogs, for instance, would have to come down around $17 before they rested on the support level.

SO FAR, farmers and consumers are agreed: Farmers are satisfied with 90 per cent of parity as a support. Consumers will appreciate a cut to that level.

The real argument is on the next stage. Will consumers want cuts in support levels below 90 per cent of parity?

Perhaps. But, as it happens, many farmers think it is unwise to keep all farm supports at 90 per cent every year.

Everybody agrees, for instance, that to guarantee a price of $2 for wheat will pile up more wheat than anybody can sell at that figure.

Many farmers in the corn belt fear that a loan of $1.40 on corn will pile up so much corn that we'll have either a crash in livestock prices or a crash in corn prices when the loan breaks down.

From the point of view of narrow farm interest, it may be desirable, when surpluses are heavy, to cut the support price down to 75 per cent or 80 per cent, rather than 90 per cent. Consumers won't mind that, certainly.

SUPPOSE the nation decides that, as a matter of national welfare, we should have heavy supplies of milk and meat. Suppose support prices are put high enough to get this production.

And suppose consumer income can't clean up the supply at support prices.

What happens then? Should we, as in the case of potatoes, keep the price high and feed or destroy the surplus? Or should we let the market set the price, let the consumer get food at bargain prices, and pay the farmer, by check, the difference between the market price and the price he was promised?

Many farmers think this second method is the sensible way to handle support prices. Consumers would surely prefer it.

THERE are going to be plenty of conflicts between the consumer wing and the farmer wing of the Truman administration. But farmers can work out a satisfactory solution if they insist on:

1. Flexible support prices.
2. Compensatory payments — direct payments to farmers if the market price drops below the support price.
3. Direct aid to consumers, thru school lunch and food stamp plans.

Your House Should Have A Bathroom

THIS editorial is especially for women. The men can read it if they want to. We don't care.

But, to women, we want to say: "Does your house have a bathroom? If not, haven't you waited long enough? Talk to your husband about it now. Talk hard!"

The cold fact is that a lot of corn belt farms can afford running water and bathrooms, with good septic tanks, etc. Not nearly as many farm homes have these improvements as farm income justifies.

Wallaces' Farmer and Iowa Homestead is all for modern farm equipment. But we think there are times when the farm operator might as well delay buying a new machine just long enough to let his wife have more improvements in the home.

We'd like to hear a tenant say to his landlord: "Bill, I figure on staying here five years anyway. And you need a water system and a bathroom in that house. I'll pay for it and put it in, if you'll agree to pay me the value, less depreciation, when I leave."

That's one way to get improvements on rented farms. Somebody ought to try it.

To men, we'd like to say this: "While you're fixing up the house, get a shower in the basement and plenty of hot water. After a dusty day in the field, a hot shower makes you feel like a new man. You'll think the whole water system is worth the money."

Spray From Atomic Bomb Killed Cruiser

ONE way to save money for the government is to watch navy expenditures for super-carriers, cruisers, etc. The big job of the navy, if we get into trouble with Russia, is to fight the very efficient Russian submarines.

But the navy is still spending money like mad on carriers and super-carriers. And the navy is still suggesting that submarines and atomic bombs aren't too important.

Typical of navy comment is a news report on the sinking of the cruiser Pensacola. It says:

"The Pensacola, oldest heavy cruiser in the navy, a veteran of 13 battles with the Japanese and a survivor of two atomic bomb tests at Bikini, finally gave up the ghost and went down this week after six hours of sea and air bombardment."

This gives the impression that the two atomic bombs bounced off the Pensacola's armor, and that gunfire and aerial bombs had to finish her.

This is far from true. The Pensacola stayed afloat after Bikini. But radioactive spray from the underwater bomb explosion had made it impossible for seamen to live on board.

So far as her usefulness went, the Pensacola was dead after Bikini.

Probably few civilians have noted that practically the whole fleet at Bikini was destroyed. Not all were sunk at once. But radioactive spray from the bomb saturated the ships left afloat. In war, they would have been abandoned at once. Unless their crews wanted to commit suicide in a body.

The atomic bomb, the super-submarine and the new long-distance bombers have changed the role of the navy. But not all navy officials admit it.

Point to tax-payers is that spending hundreds of millions on obsolete equipment doesn't defend us and does cost money.

What Is Hog Price In 1950?

How would you like to know the bottom price at which your product could sell — and know it before you plant the crop?

Farmers had this kind of "forward pricing" in war-time. That's one reason for huge war-time production.

Will they get it again?

Secretary Brannan is doing this for potatoes. Potato growers now know they will get a support price of 60 per cent of parity in 1949.

Some farmers will feel uneasy at that 60 per cent. Sounds low. But potato growers themselves agreed that the present supports were too high, and that it was good business to lower the support.

Potato, corn and wheat farmers all know about what supports will be for them on next season's crop.

Hog producers don't. They are assured 90 per cent of parity—around $17 — up until December 31, 1949. After that, nobody knows.

This would be a good time for Secretary Brannan to use the new farm law, and announce a definite support price on hogs for the period of January thru April of 1950.

Farmers need to know what they can count on.

Odds *and* Ends

LOW point in hog market was expected to come in January this winter. Maybe it actually came in November.

CAN farmers relax now and figure they can sell any time and get a good price? No. Too many hogs sent to market at once will always pull down the price.

BIG job for many farmers in 1949 will be building more corn cribs. With a normal crop in 1949, there will be more corn on Iowa farms next December than now.

HOW would you like to pay 3 per cent of your net income into the federal Social Security fund every year, and get an annuity when you want to retire at 65? President Truman and the new congress are pledged to treat farmers like other workers on this point.

MARKET milk consumption has been dropping off a little, and surpluses have been diverted to manufactured dairy products. This has hurt butter some, but the main trouble with butter has been drop in prices of vegetable oils.

WHETHER prices of heavy hogs go up depends partly on the volume of fats and oils the United States permits to be shipped abroad. Present indications are that exports won't be as great as soybean and lard men would like.

MANUFACTURERS of shoes, textiles and radios say they are cutting production to avoid flooding the market. Isn't that the "economy of scarcity" farmers were denounced for trying back in AAA days?

NOBODY expects hogs to drop to support levels. But the actual support figure averages $17.02 for the winter, on good and choice butchers at Chicago. A year from now, that support figure may mean something.

THIS coming year, there will be 1.06 tons of grain feed per animal unit on farms. Best we could do in 1946—another big corn year—was .99 of a ton per unit. Hay supplies per unit are about the same as for the last four years.

WITH the election over, talk about a Missouri Valley Authority is picking up. Even those who found faults in TVA, and are doubtful about MVA, agree that we need to combine upstream flood control with downstream dam building if we make any progress.

"PAST and present high hog prices are the result of feed shortages a year ago," says a central Iowa farmer. "Cheaper corn spells cheaper pigs just as soon as more pigs can be produced."

BRITISH farmers report that they are assured minimum prices for meat, milk and eggs four years ahead. Minimum prices of crops are guaranteed for two years ahead.

Song of the Lazy Farmer

MIRANDY'S life is pretty tough, she never does have time enough to catch up on the work she's got; she keeps that broom of hers red-hot, the floors get swept four times a day and in between she works away at scrubbin' down the basement stairs or dustin' all the front-room chairs. There's cookies, pies and bread to bake, then pans to wash and beds to make; the rugs need beatin' now and then, each week she kills and picks a hen. Three times a day she keeps me fed, and after I have gone to bed she sits beside the fire and rocks while darnin' up a pile of socks.

Whene'er I watch her rush around I always wish my health were sound so I could help her out a bit, then she'd have time to stop and sit. But my arthritis and lame back, my daily rheumatiz' attack, keep me from pushin' on a broom. I couldn't finish up one room. My sinuses and allergy keep me from dustin' too, by gee; why, my weak stomach even kicks at those meals easiest to fix. So, even tho it makes me boil to see Mirandy work and toil, I help by restin' quietly so she don't have to doctor me.

That's What People Said---

Farm folks like those at the left were interviewed by the Wallace-Homestead Poll to get views on racial and religious prejudice.

W. T. Wilson, Webster county, and Mrs. C. T. Andeberg, Greene county, were two of several hundred visited on their farms.

Interviewers found that Iowa farm people were less likely to be prejudiced than U. S. farmers as a whole and than U. S. citizens as a group.

Figures on U. S. totals and U. S. farmers are from Fortune polls, conducted by Elmo Roper.

Interviewers also found that worried people and people who blame others for their troubles were most likely to hold a grudge against some other racial or religious group.

You Hate When You're Scared

WHEN things go wrong with you, who gets blamed? Some folks always blame themselves? Some folks always blame others.

More sensible people say the blame usually has to be spread around. Sometimes circumstances are at fault, sometimes people.

How much do you worry? Some farm people worry a lot. Some don't. What difference does it make?

It makes a great deal of difference to the amount of racial and religious prejudice that exists in the Iowa country-side.

Interviews by the Wallace-Homestead Poll among a cross-section of Iowa farm people show that:

1. Fifty per cent of the men who say they "worry more than most people" are also prejudiced against one or more racial or religious groups. For all men, the prejudiced percentage is only 36 per cent.

2. Men who blame others when things go wrong also are inclined to blame certain religious and racial groups. Here, 50 per cent of the men who said they "blamed somebody else" showed racial or religious prejudice.

3. Women worriers were less likely than men to blame racial and religious groups. But women who "blamed somebody else" for their troubles were 36 per cent prejudiced, while only 25 per cent of all women were in the prejudiced group.

Psychologists have long claimed that the uneasy, frightened people who lacked self-confidence were the ones who got sucked into the Ku-Klux-Klan, and other movements that capitalize on racial and religious prejudice.

Only the fearful need a scapegoat. Hitler used the Jews. Many Germans, sore from defeat in World War I, wanted to blame somebody else for their troubles. Hitler told them to blame the Jews and Communists.

Because large numbers of German people blamed Jews and Communists for all their troubles, the Germans weren't able to take a square look at the real causes. Or at Hitler and the Nazis.

Iowa farm people seem to follow the usual pattern. Frightened, insecure people, who want to escape responsibility and blame their troubles on somebody else, are apt to pick out Jews, Catholics and Negroes.

But Iowa farm people seem to do this less often than folks in the United States as a whole, or than farmers as a national group.

Read the figures in the tables below.

One question should be raised here: Did the folks who said they had "no opinion" really mean it? Or were some of the farm people dodging the question?

The Iowa record might not look as good as it does if everybody had expressed an opinion.

What are the real facts in this situation, as distinct from farm opinion?

Do Jews have a big chunk of economic power? Fortune, published by Gentiles, made an investigation a few years ago. It showed that moving pictures were the only big industry where Jews were dominant. In practically all other fields, Jews were a minor economic influence.

Do Negroes get the same chance to be educated, to vote, to hold jobs, as other people? Everybody knows they don't.

On a factual basis, the answer to the question, "Do you think any of these groups are getting more economic power than is good for the country?" is "None."

Most experts in the field—including Presidents Roosevelt and Truman—would check the third of the statements in the other question:

"Certain racial and religious groups in this country are treated very badly, and some strong measures should be taken to improve the situation." But only 21 per cent of Iowa farmers voted that way.

Why should anybody bother about racial or religious prejudice, anyway? Here is why: It takes a lot of mutual good-will to run a country. If enough groups spend their energy hating each other, we'll have trouble.

Racial and religious prejudice helped to produce Hitler. It has produced some pint-sized Hitlers in the United States.

How many more do we want?

How Scared Are Iowa Farmers?

"Do you think any of these groups are getting more economic power in the United States than is good for the country?"

	Iowa Farmers	U.S. Farmers	All U.S.		Iowa Farmers	U.S. Farmers	All U.S.
Yes—Protestants	2	2	2	Yes—Negroes	3	11	8
Yes—Catholics	9	14	12	No—None of them	29	33	39
Yes—Jews	18	39	36	No opinion	41	11	11

(Totals add to over 100 per cent because persons interviewed checked more than one answer.)

"People have different ideas about how certain racial and religious groups are treated in this country. Which of these statements comes closest to how you feel about the real situation?"

	Iowa Farmers	U.S. Farmers	All U.S.
1. Racial and religious groups in this country are, on the whole, as well treated as they should be	25	29	25
2. While certain racial and religious groups in this country are sometimes not treated as well as they should be, we are now improving the situation as fast as is practical	25	38	36
3. Certain racial and religious groups in this country are treated very badly, and some strong measures should be taken to improve the situation	21	22	28
4. No opinion	29	11	11

Why Work Hard Doing Chores?

Proper Planning Can Make Your Work Easier, Faster and Better

THERE are lots of ways to save work around the farm. You can eliminate a lot of hard work and not spend much on fancy equipment. You can do that if you take time to plan your chores, figure out where lost motion occurs.

Ray Lange, dairyman, Clayton county, Iowa, has several inexpensive ways to speed up chores and reduce hard work. He's bought some equipment, but nothing fancy. Each electric motor or other machine earns its keep—and then some!

Electricity plays a big part in making chores easier on this dairy farm. But planning to save work plays a still bigger part.

His dairy program—a 25-cow herd with a 452-pound average—makes most of his chores.

"I chop all hay and straw," Lange says. "Before, I didn't have room to get all the hay in the barn. Now I can store plenty of hay and all the straw right where it's handy."

The chopper eliminates a lot of winter hauling. To save still more time handling hay and bedding, Lange built two big chutes from the mow to the feed alley. About twice a week, he fills each chute with hay or straw from the mow.

For three or four days he can feed or bed from the bottom of the chute without climbing into the haymow.

His separator room is in the barn, about 250 feet from the hog house. He and his hired man used to make four or five round trips twice a day, carrying separated milk to the hogs. They walked about a mile a day doing that.

Now a small rotary pump and motor, a garden hose and an old oil barrel eliminate all that walking and carrying.

Skim-milk is separated into the oil barrel, then forced into a tank in the hog house.

Feed grinding and mixing take a lot of time on all livestock farms. Lange says: "I could handle my feed a lot better, but I do want it well mixed. Too, I don't feel we could afford to put up a new building to replace the feed building we now have on the place."

He hauls the ground feed from his feed building to storage bins above the cows, or to hog self-feeders, in a special feed wagon. A mixing auger, driven by the power take-off, runs thru the bottom of a flare-type box. The unloading spout augers feed into the bin or feeder. The outfit is also used to unload small grain or shelled corn.

Since he has to haul manure almost every day, Lang also gets a great deal of his phosphate fertilizer spread at the same time. A small calf-pail—about 15 pounds—of 0-48-0 goes on each load of manure. This combination usually is spread on new seedings.

Small motor, rotary pump, garden hose and an old oil barrel help to eliminate miles of walking by forcing skim-milk to the hog house, which is located about 250 feet from the separator room. Ray Lange uses this outfit instead of carrying the skim-milk in five-gallon pails every night and morning.

Rubber-Tired cart, used for ground feed and silage, fits the feed alley between the two rows of cows in Ray Lange's barn. Feeding from a basket takes more time and more steps. Cart is filled by gravity from a large feed storage bin on the second floor. Grinding and handling of feed is a good place for most farmers to start saving time and labor.

Why Climb up into the haymow twice each day? Ray Lange thought he knew a better way. So he changed over to chopped hay and bedding, built two chutes that work like self-feeders.

Now He Feeds hay out of the bottom of the chutes. Chutes each hold a three or four-day supply of hay, or chopped straw for bedding. He only has to go into the mow about twice a week.

1949 POWER CHAMPION

Spiral-rail rims use engine power to set rear wheels at the desired spacing, without jacking up tractor. Wheels properly spaced for plowing give you more effective power.

THE NEW WD TRACTOR with POWER-ADJUSTED Wheel Treads

Far more than just a new tractor, the Allis-Chalmers Model WD is the power plant for a full line of new hydraulic implements.

The new WD 5-WAY hydraulic system provides flexible touch-control of two 14-inch or 16-inch moldboards mounted directly on the tractor. The plow is lifted, lowered and controlled by a hydraulic fingertip lever at the steering wheel. The WD hydraulic system also controls draft, acting as a drawbar governor to balance load with power. Above all, you have the steady-governed power to hold all implements at proper depth.

The new 5-WAY hydraulic system also operates cultivators, planters, listers, disc plows . . . even mowers . . . all Matched Tools for the great new, more powerful WD Tractor.

☆ 5-WAY HYDRAULIC CONTROL

A single touch-control lever at the steering wheel answers every command of the operator in controlling implements.

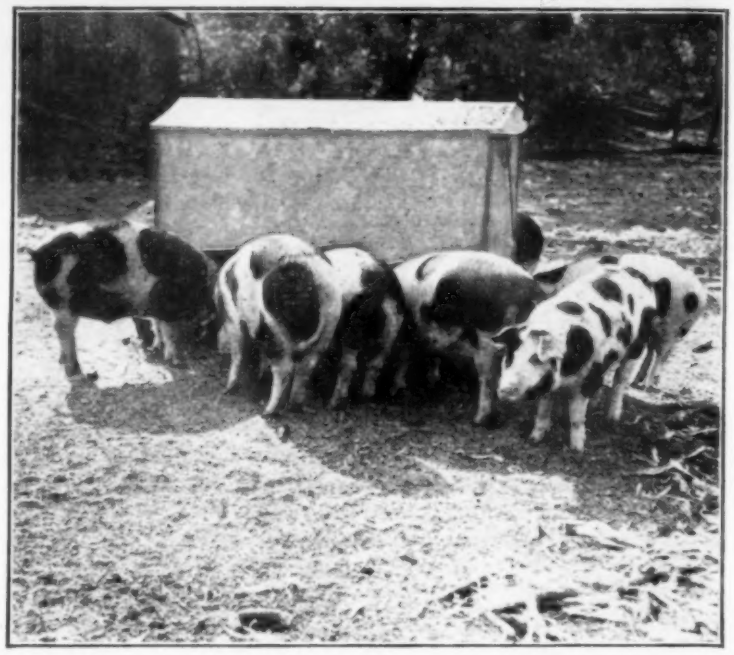
☆ TWO-CLUTCH Power Control System

Tractor may be stopped and started without interrupting power-takeoff or hydraulic system.

17 NEW FEATURES Include:

New light-pressure foot brakes; hydraulic shock absorber seat; easier steering; new low-pitch muffler; ASAE swinging drawbar.

ALLIS-CHALMERS
TRACTOR DIVISION — MILWAUKEE 1, U. S. A.



Corn Alone is not enough. When hogs are this size, they don't require as much protein as young pigs, but still need a balanced ration, including mineral, salt and complete supplement.

Corn Alone Means Costly Gains

Hogs Require Lots of Water, Alfalfa, Salt, Minerals and Balanced Protein Supplement

"THERE are a lot of pigs this size in the country," said Pete Hulsebus, Cass county, Iowa, pointing to some summer pigs. "You don't know whether to call them late spring pigs, or real early fall pigs."

Such pigs, still a couple of months from market, won't get the benefits of green pasture. But they still need plenty of vitamins in their feed. If they are to stay healthy and thrifty, something has to be substituted for pasture.

Damon Catron, swine specialist at Iowa State College, points to alfalfa meal as one of the best sources of vitamins for growing hogs.

It is true, he says, that pigs which were on pasture earlier this fall have stored up some reserve of vitamins. But not as much as they need.

A growing or fattening ration for hogs should contain a minimum of 5 per cent, and preferably 10 per cent, good quality alfalfa meal, Catron says.

Commercial feeds can be used to provide these same vitamins. But farmers who have alfalfa on their own farms look to commercial feeds as an additional source of protein rather than for alfalfa meal.

Corn is plentiful. Shelled corn makes fat hogs. But the danger is in wasting corn, just because you have a lot of it. Use of an adequate combination of animal and vegetable proteins will cut down on the grain need.

It will mean more healthy and more thrifty hogs. And protein supplements will pay for themselves in grain saved.

Many feeding trials have shown the value of salt and mineral mixtures. Use them along with corn, alfalfa and supplement. Don't neglect the water problem, either.

Open streams and waterers freeze this time of year. Lack of fresh water can also slow up gains —make them cost more money.

This time of year, hogs don't need a fancy shed, but do need a dry, well-ventilated place to sleep. Protect them from drafts. Some men hang sacks over the doors.

A better method probably is to build a false door to block a direct draft. Use enough bedding to keep down dust and keep it dry.

If you've "topped out" your hogs, better fence off part of the shed. The extra room is wasted and will just get dirty. Hogs will keep their shed fairly clean if they have just enough room. Of course, you don't want to crowd them so they will pile up. A 175-pound hog needs from eight to ten feet of floor space.

Make sure you have enough ventilation so the hog house doesn't get steamy. Insulation goes hand in hand with proper ventilation.

One farmer uses snow fence or slat cribbing around the inside of his shed. He wires it to the studding and stuffs straw in between the cribbing and the wall.

C. H. Van Vlack, agricultural engineer at Iowa State College, says draftiness can also be corrected by using metal or wood battens, or lining the inside of a shed with building paper.

He says ground cobs, chopped corn stalks or straw, wood shavings or commercial insulation can also be used. Farm-raised insulating materials should be sprayed to keep out insects and rodents. A mixture of one gallon of creosote to five gallons of crankcase oil will do the job, according to Van Vlack.

With adequate shelter, proper feed and plenty of water, your late pigs may get to market quicker than you think.

Get efficient use of feed... and market-topping finish with FUL-O-PEP

MORE beef from grain and roughage, and cattle with eye-catching finish . . . that's what every cattle feeder wants for profit.

And that's why Ful-O-Pep *pays off in the feedlot* . . . it promotes fast, daily gains, efficient feed usage and thick, even finish.

You see, Ful-O-Pep 32% Cattle Concentrate is *so well balanced* with a variety of proteins, vitamins and organic-source minerals that it *goes farther* than single protein feed or lower-quality supplements. This proper balance of nutrients can *save many dollars in feed cost* . . . for it enables your cattle to assimilate grain and roughage efficiently . . . and helps *prevent internal feed waste* caused by shortage of needed nutrients.

Get "pasture-bloom" in the feedlot

What's more, Ful-O-Pep 32% Cattle Concentrate is *fortified* with Concentrated Spring Range* . . . made from fresh, young cereal grasses, carefully dehydrated to preserve their high feeding value. Like green grass itself, this Vitamin Boost provides nutrients needed for *condition* and *market-topping* finish. And the *palatability* and *appetite appeal* of Ful-O-Pep helps keep cattle up at the feed bunks, eating every day.

So before you buy feed, see your local Ful-O-Pep Dealer. You'll find his Ful-O-Pep Cattle Feeds *priced right* for the pounds of *quality beef* they make possible.

FREE CATTLE BOOKLET

On card or letter say, "Please send my FREE copy of the book, Feeding Cattle for Profit." Contains many valuable chapters on management and nutrition. Mail request NOW to Dept. L-89, The Quaker Oats Company, Chicago 4, Ill.

*Reg. U. S. Pat. Off.

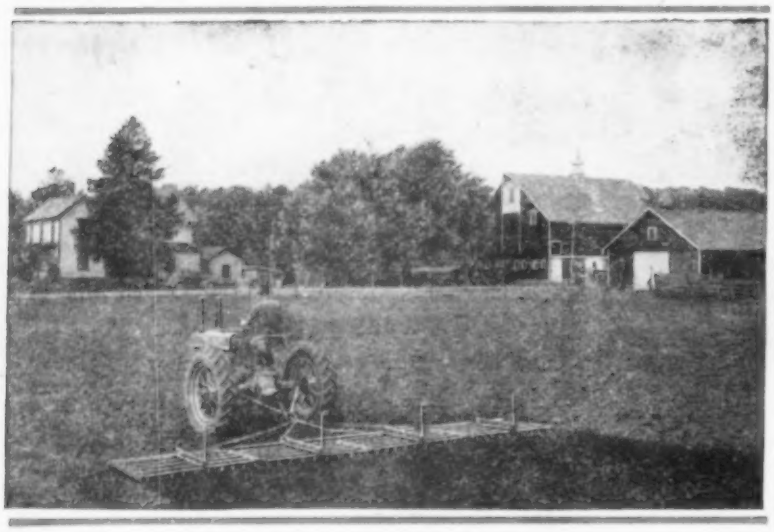
FEEDLOT RESULTS PROVE FUL-O-PEP

L. O. Spears, Greenville, Ia., says:
"Ful-O-Pep makes more economical gains than other feeds I've used. My 700-pound steers fed 110 days averaged 3½ lbs. daily gain."

Anton Winther, Wisner, Nebr., says:
"I feed several hundred cattle yearly on Ful-O-Pep, grain and forage. My cattle relish this ration, and finish with smoothness and bloom."

Rube Carey, Pocahontas, Ia., says:
"My 370-pound calves fed 234 days on Ful-O-Pep 32% Concentrate, corn and oats made an average daily gain of 2½ lbs. They topped the Sioux City market."

KILL WEEDS!



FASTER, BETTER Harrowing

THE KEWANEE Folding Harrow does an amazing harrowing job never before thought possible. That's because it is the first harrow really engineered for tractor power and *high speeds.* Its vital features are original, **Patented** and exclusive.

Farmers say the KEWANEE harrows 50% *faster* and does a better job, once over, than most harrows do in twice over the field. You get better seedbeds . . . *kill more weeds* . . . save one or more cultivations . . . and produce bigger crops. *Ask any* KEWANEE *Owner.*

Only KEWANEE has long **Welded Teeth** that take a real "bite" of the soil. Streamlined and self-clearing. No clamps, bolts or extended teeth to gather trash and slow up harrowing. No delays, lost teeth or impaired work. You save *time, work, money!*

More teeth per section, diamond-shaped and dagger-pointed. Cuts every 1½ inches. *Finer pulverizing, better seedbeds—bigger crops!* **Patented Short-Center Tractor Hitch**—harrow does not dig in at the front or raise out of ground at the rear at fastest tractor speeds.

Amazing Folding Feature! Two outer sections fold over to go thru farm gates. Easy to fold. Easy to transport. Easy to store. Farmers pronounce it the greatest improvement in all harrow history!

See your KEWANEE Dealer right away! Make sure of owning America's No. 1 Harrow this coming year. Don't settle for less than the KEWANEE. No other harrow like it. Write for Free Folder.

WELDED TEETH

Stand the Gaff

One look tells you why. Each tooth is fused and welded to both the inner and outer side of the tooth bar, actually making them one inseparable piece of metal. No clamps or bolts to work loose, resulting in lost teeth, impaired work and frequent replacement expense.

Teeth are tough, hard, alloy steel—which resists wear and stays sharp for years. They are of greater length, diamond-shaped and dagger-pointed. Better and deeper penetration and lighter draft.

Note that none of the tooth extends above the bar, providing extra working length for better harrowing. The wide travel width gives extra strength to stand the strains of hardest usage in the toughest soil conditions.

"Teeth do all the work"

ALL-STEEL FOLDING EVENER

Engineered for high-speed, heavy duty performance. Built of high carbon, oval tubular steel of exceptional strength to insure lasting rigidity and alignment. Welded steel draft rings—no bolts to loosen. Smooth streamlined construction with rounded surfaces that will not gather trash.

KEWANEE MACHINERY & CONVEYOR CO., KEWANEE, ILLINOIS

"BUILT FOR SPEED" *Kewanee* **FOLDING HARROW**

Makers of the Famous KEWANEE Farm Elevators

Corn is being fed with a shovel where a spoon was used a year ago, says Bert Hildebrand, Calhoun county, Iowa. He will sell his 60 Durocs at around 250 pounds. Bert's corn averaged 70 bushels an acre.

How Can You Divide Contoured Corn?

Tenants and Landlords Seek Way to Split Crop When Rows Aren't All Same Length

"I CAN'T contour my corn ground because it leaves me no way to divide the corn between me and the landlord." So spoke a tenant on a hill-land farm. He gives half the corn as rent.

This tenant expressed what is in many farmers' minds. The tenant and the landlord are satisfied with this system of dividing corn by the row. The renter takes 10 rows around a land and then gives the landlord the same. Each has his own crib.

Anyone can see the advantages of this method—it's easy to figure out. The corn can be picked clean or dirty without cheating the tenant or the landlord.

But when the fields are contoured, and when there are no two rows the same length, the corn can't be divided by the row. That's why some farmers say they must find some other way to divide corn before they can contour.

Probably other ways to divide the corn between landlord and tenant will come to mind. Here are a few farmers' suggestions:

"I suppose you would have to divide your contoured corn by the wagon load." This is offered by J. B. Seehusen, of Jones county, Iowa. He continues: "You can take one load, give the other man the next. I think you'd both end up with about half the corn."

But anyone can think of objections to dividing by the load. It may be said that one would have to measure every load. Or it could be said that the corn that is picked in the afternoon when the shucks are dry would pile up more than the corn picked in the forenoon or on damp days.

These objections could be met by dividing the loads each half day. For instance, if both tenant and the landlord got three loads in the forenoon and three in the afternoon, each of them would have about the same amount of corn.

T. E. Stanton, of Jones county, Iowa, suggests still another method. He says: "You couldn't very well take four rows and give the other man the next four. I guess you would have to divide contoured corn in the crib after you picked it. But even then you might not get it exactly even."

If this method were used, the crib could be divided in the middle by a partition. Or separate cribs could be used for the tenant's and landlord's corn, and then measured after they were filled.

But extra shucks bulk up in cribs as well as in wagons. So to be fair, one would have to fill each end of the divided crib evenly day by day.

"You could divide the money after your corn was sold," suggests a Webster county, Iowa, farmer. That way there'd be no room for argument between you and the landlord.

For those who live in the cash grain area, this man's method would fill the bill. If a tenant and landlord can agree on the time to sell, dividing the money is a fool-proof method.

The money division system could be used even when the tenant and the landlord sell at different times. The tenant could shell out and sell about half the crib. Then he could make a more exact division after the other half had been shelled and weighed.

Of course, some other method of dividing the corn which was fed would have to be used.

With some kinds of leases, the question of grain division won't come up.

Ray Lange, of Clayton county, Iowa, says:

"I never thought about how you would divide corn raised on the contour on a share rent farm. We have a livestock share lease, so we don't have that problem."

If one wants to contour, but both he and the landlord are worried about corn division, he can change to the livestock share lease. Then just money and expenses would be shared, so there'll be no problem about grain division.

"Why tussle under a mountain of quilts when you can sleep well under a single Electric Cover?" asks Reddy Kilowatt.

Yes, why . . . when you can enjoy blissful, night-long warmth every night regardless of how much your room cools. Bedside controls keep your sleeping temperature just right . . . automatically with no more guessing about how many blankets to put on.

You can solve your Christmas Gift worries easily with Electric Covers. They're economical to operate . . . take only a few cents worth of electricity each week. They're safe, light and warm. You'll find a wide selection of prices and designs. See them at the nearest office of your business-managed electric company . . . or at your appliance dealer's.

A TIMELY MESSAGE FROM

THE ELECTRIC COMPANIES OF IOWA

PIONEERS IN RURAL ELECTRIFICATION

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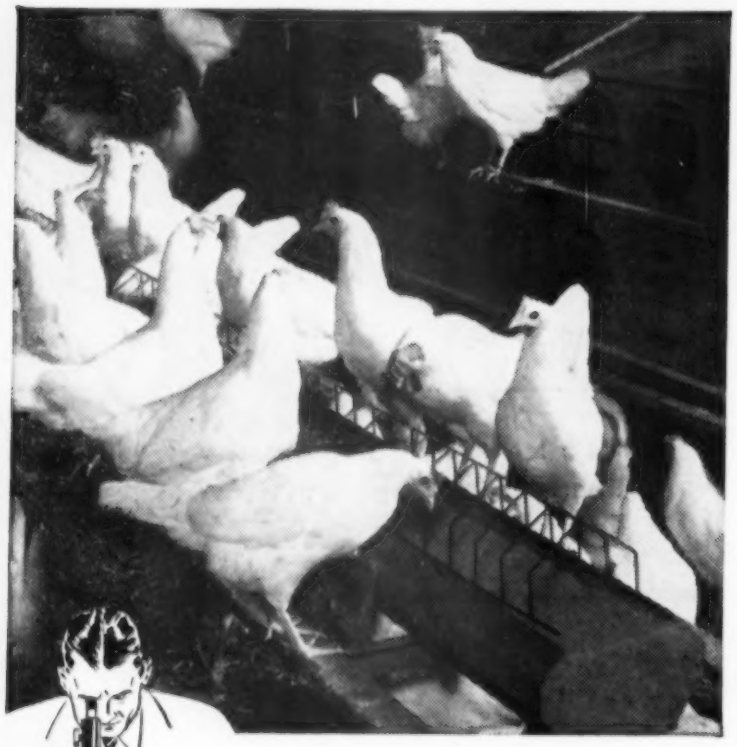
PEOPLES GAS & ELECTRIC CO.
INTERSTATE POWER COMPANY
IOWA ELECTRIC COMPANY
IOWA ELECTRIC LIGHT & POWER COMPANY
IOWA-ILLINOIS GAS AND ELECTRIC COMPANY
IOWA POWER & LIGHT COMPANY
IOWA PUBLIC SERVICE COMPANY
IOWA SOUTHERN UTILITIES CO.
NORTHWESTERN LIGHT & POWER COMPANY

Reddy Kilowatt
The friendly symbol of the electric light and power industry.

Are Your Hens Suffering From AMINO HUNGER?



Yes, these birds look healthy. Yet they may be holding back eggs because of amino hunger — the unseen robber of egg profits!

What is AMINO HUNGER?

It's a form of protein starvation. Even hens that eat a great amount may suffer from amino hunger. Protein, when digested, releases *amino acids.* With these the hen builds eggs. Of 22 known amino acids, 10 are *vital* to life and *vital* to egg production. If the protein ration fails to supply *even one* of these, the result is amino hunger.

What are its EFFECTS?

Amino hunger cuts production. It makes hens lazy and unthrifty. And it wastes untold bushels of feed. Birds may actually eat *more* than usual in an effort to get enough of the missing amino acids! The answer is to get a feed that not only supplies enough *total* protein — but enough of the *right* amino acids. That feed is Kellogg's Amino-Built Egg Mash!

YOUR HENS NEED ALL 10 OF THESE VITAL AMINO ACIDS

(At 70% production for 100 days)

	Units In The Eggs That a Hen Lays	Units She Gets in Kellogg's Egg Mash
1. Arginine	.462	2.448
2. Histidine	.210	.918
3. Isoleucine	.378	1.734
4. Leucine	.651	2.835
5. Lycine	.574	2.142
6. Methionine	.217	.408
7. Phenylalinine	.441	1.63
8. Threonine	.378	1.407
9. Tryptophane	.140	.489
10. Valine	.511	2.08

Kellogg's EGG MASH AMINO-BUILT

to supply all of the vital 10 amino acids

Now you can get an egg mash that assures your hens *known, reliable, uniform amounts* of the vital 10 amino acids! We *measure* the amounts of these units in every protein ingredient. We put them together in just the right proportion to make it *easier* for your hens to lay. Yes, Kellogg's Egg Mash is an amino-built feed. Try it today! See if it doesn't bring you more eggs...bigger net profits. Call your nearest Kellogg Feed Dealer now!

KELLOGG COMPANY
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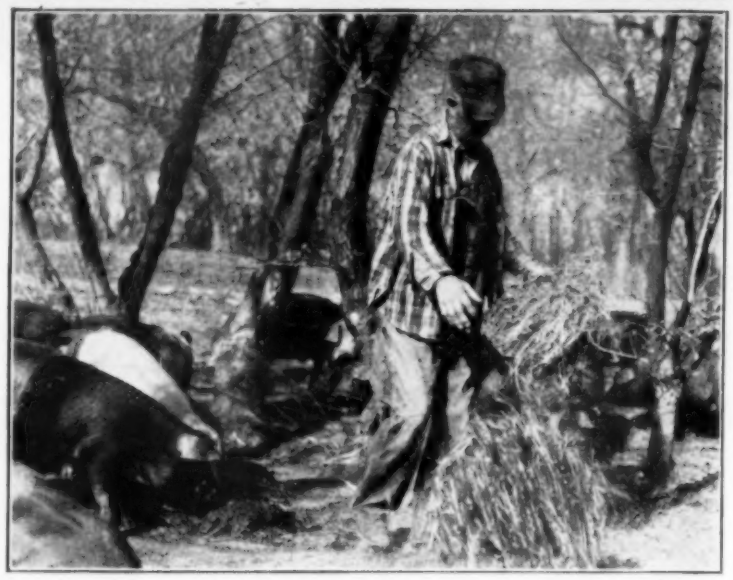


Gilts or sows need alfalfa during the winter, says Horace Thomas, Pottawattamie county, Iowa. He prefers alfalfa in meal form.

Keep Gilts Gaining But Not Fat

Hog Raisers Say Improper Feeding Now Often Is Cause of Poor Spring Litters

"ONE of the dangers, especially this year, is that a man is apt to overfeed his brood sows on corn and get them too fat," says Raymond Schwartz, Pottawattamie county, Iowa. He was looking over the fence at his purebred Hampshire gilts. He expects good litters from them—was fretting out loud.

"You have to keep gilts gaining a bit, but you don't want them to get fat," Schwartz said. "I do like to have them in good flesh at farrowing time. They milk better."

A balanced ration is vital. Too much corn means extra fat and not enough growth. The brood sow is growing pigs too. She needs some corn; but also needs lots of minerals, salt, fresh water, vitamins and a complete supplement.

This year Schwartz is going to try to have that balanced ration by grinding and mixing all his feed, except the mineral and salt. He'll use oats, shelled corn, alfalfa and supplement.

"I'll mix the ration a bit light on the shelled corn. Then they won't get too fat. It will be easy to throw out a little extra ear corn if I see they need more than I used in the ground feed," Schwartz says.

Exercise is needed. You'll see a lot of hog feeders a long way from the hog shed this winter. Exercise for brood sows means sounder growth with less fat, and a better appetite.

Horace Thomas, who lives in another part of Pottawattamie county, is normally on the market with his bunch of hogs by the time they are six months old.

This year he raised 180 late May pigs and has 90 fall pigs. His brood sows will stay on pasture as long as possible. He's slowly switching from crossbreds to Minnesota No. 1 hogs. Thomas is a great booster for the bacon type hog—the day is near when a farmer will be paid a bonus for lean meat, he thinks.

Thomas is also an alfalfa meal booster. As soon as his fall pigs come off pasture they get alfalfa meal: so do the sows.

"Use some corn, oats, a mixture of animal and vegetable proteins with ground alfalfa meal, lots of fresh air and fresh water," Thomas says.

He doesn't like to shut all the doors and windows in a hog house. His sows and gilts have enough room, but not a lot of extra shed space. They are guarded from drafts but certainly get lots of fresh air.

These men are following the trend away from one protein supplement to a mixture of supplements or a complete mixed supplement. They know the mother needs various proteins, minerals and vitamins to produce strong pigs.

They know too that sunshine and vitamins which summer pasture provides just aren't there in the winter. So they use alfalfa meal, partly for the protein and vitamins it yields, partly for the bulk it gives the ration and partly because it is a cheaper feed they grow on their own farms.

You can be too generous and spoil a pig crop. You can also do it by being too thrifty. That is very true with gilts. A mature sow can draw to some extent on her body reserves to grow pigs.

But a gilt really has to do two things — grow herself and grow her pigs. Just because you have corn piled on the ground, don't feed it and nothing else.

Most hog raisers like to feed mineral free choice. Even if you do that also provide salt free choice. Use some alfalfa meal and use a complete protein supplement. Lots of fresh water is essential. So is a little exercise each day.

SAVE YOUR LIFE!

"It won't happen to me!" That's what you may be saying about the little things that can cause accidents around your place. That's what the "hero" of this story said, too. N. J. Wardle, Iowa State College safety specialist, tells you what happened.

"JIM! Time to get up!" Henry called up the stairs to his son, then headed for the barn. The early morning air was crisp—a a warning of cold days to come.

Henry felt good as he opened the barn door and looked in on his fine herd of Guernseys. The cows started to get up—expecting the feed Henry soon would be giving them.

Henry climbed the ladder to the hay mow. As he went up, he noticed again that weak rung, made another mental note to replace it.

Hurrying a little, he pulled several bales of hay to the floor, broke a couple, and dropped half a bale down each chute. Heading for the ladder, he stepped over the weak, cracked board next to the opening.

The long step threw him off balance, and he put his full weight on that weak second rung.

First a crack, then the splitting sound of breaking wood. Henry grabbed desperately, but the ladder didn't extend above the mow floor. His arms and hands slid over the edge.

Jim found his father in a quiet huddle at the foot of the ladder. Henry began to regain consciousness as his son got him to the house. But he was laid up for months—two cracked vertebrae.

The farmer is the climbingest person on earth. Yet he takes less care of his climbing equipment than most anyone. Falls are the Number One kind of farm accident.

They don't have to be. Not if you'll do these things:

1. Keep all ladders in good repair at all times.
2. Build barn ladders so you can get good footing on each rung.
3. Extend permanent ladders four feet above the level of the loft floor.
4. Build ladders so you can grab the side rails instead of the rungs.
5. Keep ladders and stairways clear of hay and other materials.
6. Build a guard rail around stair or ladder openings.

"He finally admitted that he's making money."

Tom made tests of all the soils. He told me what fertilizer I would need and how much of each kind. He also told me the best time to fertilize my farm. Then, after studying the slopes and erosion in each field, he told me what I must do to conserve the soil. You see, we had good bottom land that was in the same rotation as the high ground. Actually, Tom showed us how the low ground could be farmed more intensely. Then I put Tom's practical land use program to work. I made it part of my daily chores, didn't have to put on another hired hand and my present farm equipment did the job. It didn't cost me a cent extra and it has paid off in dollars.

Listen to "Red" Brand each Tuesday and Thursday tell how others benefited the first year through the "practical-land-use" plan. Ask your Red Brand dealer for reprints of these "practical-land-use" broadcasts. They may point the way to easier, more profitable farming for you. If your dealer does not have a supply of these helpful booklets, write to us.

KEYSTONE STEEL & WIRE COMPANY, PEORIA 7, ILL.

LOOK FOR THIS SIGN

RED BRAND FENCE
RED TOP STEEL POSTS
POULTRY NETTING • NON-CLIMBABLE FENCE • NAILS • BALE TIES • GATES

For Something Special in Good Eating

Try this sweet pickle cure for smaller pieces at butchering time

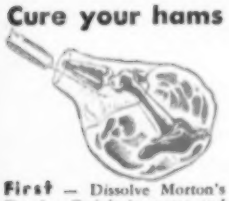
Are spare ribs, neck bones, liver, tongue, and other odds and ends a problem with you at butchering time?

This year, instead of rushing to use up these smaller pieces immediately, put them up in a pickle made with Morton's Tender Quick. Use them at your leisure. You'll have some of the grandest eating you ever sat down to.

For your hams and bacon, cure with Morton's Tender Quick and Sugar Cure. Your meat will be firm, sweet, tender, perfectly cured from rind to bone — the best-tasting, best keeping hams you ever had.

Curing from the inside out and from the outside in, the Morton Way is faster and it's safer. More than a million farm families use no other method.

Cure your hams this easy, simple, safer Morton Way



First — Dissolve Morton's Tender Quick in water and pump along the bones. This fast-acting curing pickle starts curing INSIDE . . . helps prevent bone taint, off-flavor, under-cured spots.

Then — Rub the outside with Morton's Sugar Cure. This complete sugar-curing salt strikes in from the OUTSIDE, curing toward the center . . . gives you a thorough cure, and a rich, wood smoke flavor.

For delicious sausage, use Morton's Sausage Seasoning. It's a rare blend of salt, peppers, sage, and other choice spices, ready to use. There's no guess work — nothing to mix or weigh. Just add to the meat and grind.

The secret of the exceptional quality of Morton cured meat is the special ingredients in Tender-Quick that bring out and intensify the rich meat flavors hidden in the meat cells and which you don't ordinarily experience. It also adds delicious taste and firmness to the fat.

Cure your meat the improved

MORTON WAY

Preferred by more than a million Farm Families

Get this important book on meat curing

More than 1,000,000 copies of "Home Meat Curing Made Easy" have already gone in to farm homes. Shows how to butcher, dress, chill, and cure pork, beef, veal, and lamb . . . to make smoked turkey, Canadian Bacon, sausage. Tells the important things to do to get long keeping quality and fine flavor in home cured meat. Send for copy today. Just write name and address on margin and mail with 10¢ in coin to Morton Salt Co., P.O. Box 781, Chicago 90, Ill.

Overflow corn (3,000 bushels in that pile) goes into the grinder on Lawrence Putbrese farm, Sac county, Iowa. Putbrese feeds all his corn, will add 10 or 12 more feeders to the 16 he has now.

New Methods Call For New Leases

Contouring and Weed Spraying Raise Problems For Landlords and Tenants

DIVIDING extra costs of new farming methods brings some arguments between tenants and landlords. Some of the new farming methods are connected with contouring and soil conservation.

Farmers often say more labor is needed to keep weeds out of contoured corn, compared to up-and-down-hill rows. Contoured corn can't be checked and cultivated crosswise.

To keep weeds out of the drilled rows, farmers have to disk and harrow more before planting. In this way, weeds can be killed, but extra work is added.

Or plant contoured corn in furrows. The loose ground lister or small furrow opener gives a chance to roll the dirt down on weeds in the row. These require more power than the surface drill planter.

It may even be that contoured corn will have to be sprayed with 2,4-D or some other weed killer for weed control in the row. That means extra labor and cash outlay for machinery and chemicals.

Whose expense is it? Do we go by old leases which say the tenant is responsible for providing labor and machinery to keep the weeds down? Or do new farming methods require reconsideration of lease customs?

A group of farmers, land-owners and farm managers were discussing division of weed spraying costs in Polk county, Iowa.

"For this first year, said one business man and farm owner, "my tenant is buying the spraying machinery and I am buying the spray." His was a 50-50 lease.

He reasoned that putting the cost of both new machinery and spray material on the tenant in the first year might be a little unfair. "It's something new," he said. "We don't know how it will work."

But there are both landlords and tenants who take other views and give reasons for their position. Here is one land-owner's view:

"The lease says the tenant is to furnish the machinery and labor to keep the weeds down. Let him do it any way he wants to, but it's his expense."

Sometimes that would mean that the farmer would plant corn up and down the hills to make weed control easier. The landlord might pay a big price in soil that was washed away.

An occasional tenant takes the view that the cost of spraying in either contoured or checked corn belongs mostly to the landlord. Here is what one says:

"These thistles and morning-glories were on this farm when I came. They're the owner's weeds, not mine."

Some land-owners admit responsibility for part of the weeds on their farms. But on most farms joint responsibility for the weeds isn't hard to establish.

Most of the landlords and farm managers expect to handle spraying in the same manner that other costs are handled. The tenant will buy the machinery to apply the spray and perform the labor. The cost of spraying material will be divided as other costs are divided.

Is there enough difference in the labor required to raise a crop on the contour to justify lease changes?

Farmers disagree about how much additional labor is connected with contouring, strip-cropping and terracing. There is some fence moving, and extra turning in the fields, of course.

A farmer with a long-term lease usually is willing to take on this extra labor because he gets the benefits of bigger crops from water and soil conservation. But a tenant with a short-term lease may need some incentive to set up a soil conservation farm program.

NOT 1, NOT 2, NOT 3 . . .

Raised a Carload of Champions!

APPLE RIVER, ILL.—Walter Schlichting's idea of a pleasant hobby is one that pays off in blue ribbons . . . plus cash. For example, the carload of hogs he entered in last year's International Live Stock Exposition was awarded a Grand Championship!

Walter and Prize Winner

That was the PAY-OFF. What's Schlichting's HOBBY? Just feeding livestock . . . like the corn-fed beauty he's stroking here! Doesn't forget, either, to feed himself a big bowl of Wheaties at breakfast . . . four times a week, he says.

* * *

Another hobby: watching basketball. Walter Schlichting has followed the hoop sport for years. Gets a big kick out of close, fast-breaking games. He's also a long time Wheaties fan. Started eating 'em "because they're 100% whole wheat flakes." Walter's favorite is bananas with Wheaties and milk. Famous training dish, offering food energy, three B vitamins. Minerals, proteins.

* * *

Good idea to stock up on Wheaties in the Extra-Big-Pak size. Holds 50% more than regular size package. Convenient in homes where several are served regularly.

Many THREE-generation Wheaties families. More and more report several generations enjoying "Breakfast of Champions"! All generations in your family had their Wheaties today?

General Mills

"Wheaties" and "Breakfast of Champions" are registered trade marks of General Mills.

"Like some fruit with your Wheaties dear?"

Workday Pointers

RATS CAN JUMP two feet high. That's a point to remember in rat-proofing buildings.

▲ ▲ ▲

BREED COWS during the last half of the heat period, for the best chance of success with one service.

▲ ▲ ▲

FROZEN POTATOES or potato sprouts should not be fed to livestock. The sprouts are somewhat poisonous.

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TWENTY POUNDS of phosphate on each load of manure, and 10 loads of manure per acre, will boost corn yields.

▲ ▲ ▲

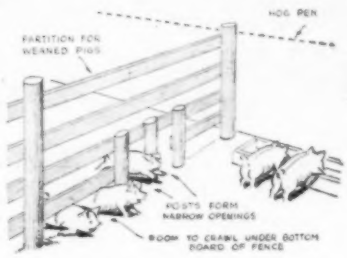
HOGS LIKE to work their own bedding down. Pile in the straw and let them scatter it out. Or if you bed with corn fodder, there is no need to grind it. The hogs will chew it up.

▲ ▲ ▲

COUNT AHEAD four months and then count back nine days from breeding date for the approximate time sows will farrow. For example, sows bred December 10 will farrow about April 1.

▲ ▲ ▲

FALL PIGS should have an eating and sleeping place of their own. But don't make the pigs



break their backs crawling under boards. Up-and-down bars properly spaced will let the pigs thru on the run. Make it easy for the fall pigs to eat and sleep comfortably.

▲ ▲ ▲

IF YOU MARK sows when they are bred, and then write down the dates, you are much less likely to lose litters by having them come in with other pigs. Earmarking with rings or notches is a common method. Each ear has six easily described positions. Clipping the hair is not a good mark. It will disappear before farrowing time.

▲ ▲ ▲

FARMERS MUST FILE a federal income tax report by January 15, 1949. It can be (1) an estimate of 1948 income, or (2) you can make the final report on 1948 income. In either case, payment in full must accompany the report. If the estimate is filed on January 15, then the final report must be made on March 15, with additional payment due if any.

▲ ▲ ▲

A FARM ACCOUNT book, with income tax information and sample blanks, will save time in making out your income tax, and it may save you money by having a complete record of expenses. One dollar sent to Wallaces' Farmer and Iowa Homestead will bring you an account book with tax information, postpaid.

1 out of every 7 dairy cows destroyed this year by

MASTITIS!

Mastitis (garget) will cause an estimated 15% of the dairy cows in the U.S. to be replaced this year. It causes an annual milk loss of 20% or over 900 million dollars. Add veterinary bills and just plain bother with "gargety" cows and it's easy to see why mastitis control is the dairy farmer's number one problem today.

It's common knowledge that improper milking often leads to mastitis. The new, modern MARLOW MILKER is the result of J. C. Marlow's 40 years' experience selling and servicing milking machines and raising purebred dairy cattle. That experience is built into the Marlow Milker, which gives you perfected low vacuum and a combination of features which eliminate the major cause of mastitis. Teat cups don't crawl up and injure teats and udders. It milks a cow dry without stripping, but guards against injuries leading to mastitis.

Read the Evidence from CAPABLE DAIRYMEN!

Jerry J. Harrington, Plainfield, Iowa. "I hope more dairy farmers get the wonderful MARLOW MILKER. Then mastitis will no longer be a problem. Our two MARLOW units milk much faster than the three unit machine we had before . . . and with no udder trouble whatever. They also milk the cows very dry with no need for hand stripping."

Virgil F. Albert, Mgr., Nashotah Mission House Farm, Nashotah, Wis. "The MARLOW MILKERS helped us clear up our severe mastitis condition. When we put in the MARLOWS we had only four cows with sound udders, and only one with even fair quality. Now, four months later, our production is way, way up. We have had three consecutive bacteria counts of 100, and our veterinarian rated all udders good."

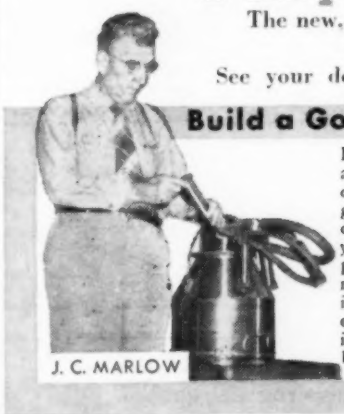
S. E. Jones, Herdsman, Yankton State Hospital, Yankton, So. Dak. "We milk 85 to 100 cows daily using all kinds of help; but even so we don't have any trouble with swollen quarters which we had before we changed to MARLOWS. We are convinced that the MARLOW MILKER is definitely easiest on udders."

Elmer Johnson, Eagle Bend, Minn. "In 18 years using a different type machine, I sold three fine herds of 25 dairy cows due to mastitis. Have had no trouble since I started using a MARLOW."

Fully Guaranteed

The new, modern MARLOW MILKER is fully guaranteed.

See your dealer for complete information.



J. C. MARLOW

Build a Good Business of Your Own

If you know cows and would like to join an organization that is contributing an outstanding service to dairymen—the greatest milking service in America today—write to us giving an outline of your qualifications and background. We prefer to work with dairymen who can really appreciate that the name MARLOW is going down in history for the greatest contribution ever made to the dairy industry. This is your opportunity . . . *Write today and avoid regrets later.*

J. C. MARLOW MILKING MACHINE CO.
Dept. I
Mankato, Minnesota

MAILED FREE! "40 Years a Milker Man"—a helpful, interesting story of a career devoted to better, more profitable milking.

I am a dairyman ☐ I would like to sell Marlow Milkers ☐

NAME_____

TOWN_____

STATE_____

MARLOW MILKER

DEFINITELY EASIEST ON UDDERS

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Now . . . amazingly easy
TO FEED OUT
Large Roundworms

Treating pigs no longer a chore as science finds safe way to use worm-killing sodium fluoride.

Now you can rid your pigs of large roundworms with no more effort than feeding them! Just mix Pay-U Large Roundworm Expeller with their feed. That's all you do. The pigs eat the feed and worm themselves.

Pay-U contains sodium fluoride, the remarkable ingredient recommended by USDA scientists as the most effective worming agent known for large roundworms. In addition, Pay-U also contains other ingredients—blood-building minerals and a gentle laxative—which, when fed the Pay-U Way, make the treatment *much safer* than when sodium fluoride is used alone.

Pay-U is so gentle, and so nearly shock-proof, that pigs usually gain while being wormed, yet tests prove it kills 95% or more of large roundworms.

Give your pigs a chance to make hogs out of themselves—quick! Don't let large roundworms hold them back from profitable early markets when you can get rid of those worms for less than 8c for each 50-pound pig.

Thus: Only about one pound of gain will pay for worming three pigs with Pay-U.

MOST INJURIOUS PARASITES
"Large roundworms are the most widespread and injurious parasites affecting swine"—USDA Yearbook, Science in Farming, 1947.

68 LBS. EXTRA GAIN
At Michigan State College, two pigs from the same litter received identical feed and care. One was treated for worms and mange. The other was not. When the treated pig weighed 100 pounds, the one that was not treated weighed only 32 pounds.

5 WEEKS EARLIER TO MARKET
At Georgia Coastal Plains Experiment Station, pigs that had been wormed reached a 215-pound weight five weeks earlier than those with heavy worm infestation.

WORMS BREAK INTO BLOOD STREAM
Newly-hatched roundworms migrate through the pig's blood stream, causing damage to lungs and liver. White spots on the liver usually are scars of worm damage. Thumps, and also coughing after slight exercise, are frequent symptoms of worm infestation.

Pay-U LABORATORIES
QUINCY, ILLINOIS

MAIL COUPON TODAY
—if you don't have the name of a Pay-U dealer—IT MAY HELP YOU SPEED HOGS TO MARKET—GIVE YOU MORE PORK PROFITS.
MAIL COUPON TODAY

PAY-U LABORATORIES, Quincy, Illinois 1128
Gentlemen: Please send me the name of my nearest dealer who handles this new, easy-to-use, safe worm expeller that just feeds the worms out of my pigs.

Name.....
City..... State.....
RFD..... County.....
or SEE YOUR PAY-U DEALER

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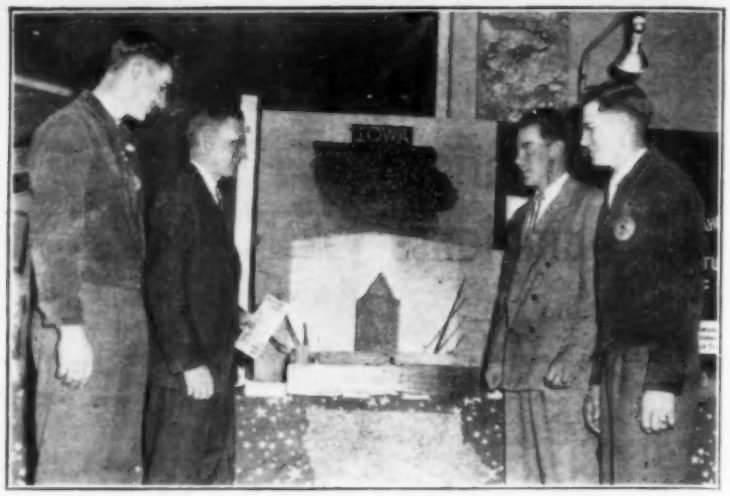

Three Iowa boys were awarded the American Farmer degree at the national convention of Future Farmers of America, in Kansas City. From left: Dean Gardner, Mt. Ayr; State Adviser H. T. Hall, Des Moines; Bob Nessa, Eagle Grove; Bob Fickel, Fairfield.

INSIDE STUFF

WHAT ARE HOGS going to sell for in the winter of 1949-50? That's a tough question. But every farmer has to answer it.

▲ ▲

IF YOU THINK the price will be good, you'll keep more sows and gilts for spring farrowing. If you are doubtful about price, you'll keep fewer.

▲ ▲

THAT'S WHY I have just spent a week in Washington and New York. To economists, to business men, to bankers, I put questions such as these:

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"ARE WE IN FOR more inflation? Or will the boom taper off? What are the risks of war? And the costs of national defense? What are farm products going to bring? And what about hogs next year?"

▲ ▲

TAKE INFLATION and deflation first. The usual opinion is that the boom will go on for a while. Some point to weaknesses in shoes, textiles, citrus fruits, etc., but think defense spending will offset them.

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"TELL ME WHO is going to be secretary of state and secretary of national defense," said one man. "And I'll tell you about the boom."

▲ ▲

HE FELT that the continuation of the boom turns on how much tax money is spent for aid to Europe, for the re-arming of western Europe, and for the building up of our armed forces.

▲ ▲

"IF THE secretary of state makes a move that builds up a war scare, we'll dump more money abroad," this man said. "And if the secretary of national defense is unable to make air force, army and navy pull together, we'll spend and waste a lot more on our own armed forces."

THERE'S LESS TALK of immediate war in Washington. I found one man who wants to drop atomic bombs right away, before the Russians know how to make them. And another who says we are too late now, that the Russians have an atomic bomb already.

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"WHAT ABOUT a peace scare?" I asked. "Suppose the United States and Russia agree to get along with each other. What then?"

▲ ▲

THEN, I WAS TOLD, army-navy appropriations would drop, loans to Europe would shrink, deflation would commence. Few expected any of these things to happen.

▲ ▲

"WHAT DOES all this mean to the price of hogs?" was the question I usually wound up with. Here's the stock answer:

▲ ▲

"CONTINUED BOOM means plenty of jobs and buying power. We can sell in 1949-50 as many hogs as we raised in 1942, and get a price around $18 to $20. Since the U. S. goal for spring pigs is only at the 1942 level, and since it looks as if we wouldn't meet the goal, hog prices ought to be good."

▲ ▲

I HAD SOME questions asked me. "With hog prospects so good, why aren't the farmers planning to raise more hogs?"

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"SOME OF THEM are going to build more cribs and seal more corn," I said. "They're sure of the corn loan. They aren't sure of decent price supports for hogs—especially after January 1, 1950."

▲ ▲

I LEFT NEW YORK on a warm, bright day, but blizzards were drifting out of Nebraska back home. And the hog market, having reached a seasonal low weeks ahead of time, was timidly trying to work back up.

DONALD R. MURPHY.

WALLACES' FARMER AND IOWA HOMESTEAD
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• These new WEED AMERICAN V BAR-REINFORCED TIRE CHAINS are designed for "smart drivers" who take every possible safety precaution. WEED AMERICAN V BARS make driving easier and safer on ice as well as snow. They have these seven advantages:

1—Two-Way Grip, Right and Left
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4—Start Easier • 5—Stop Shorter
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Ask for WEED AMERICAN V BARS by name. If your dealer is unable to supply you with them, please take what he has. But we want you at least to know about this *new idea in traction.*

ACCO
AMERICAN CHAIN & CABLE COMPANY, INC.
In Business for Your Safety

Report Boosts Paved Roads

KEEPING Iowa's paved roads in shape—and building more of them—is just as important as taking farmers out of the mud. That seems to be the gist of a 20-year road improvement program proposed by a state legislature road study committee.

The committee was set up by the last legislature to study road problems. Its ideas on how to solve highway problems will be presented to the 1949 general assembly, which meets January 10.

The 20-year plan of the committee calls for "dustless, surfaced highways for the entire primary road system and access to a surfaced secondary road for every reasonably located rural home in Iowa."

But there is some evidence that the report worries more about state highways than it does about county roads.

The committee says it will take $88,350,000 a year to carry out its 20-year program. Of this, $32,907,000 would be spent on state primary roads, $46,381,000 on county roads, $9,062,000 on city streets.

This would give state highways a much bigger share of road money than they are now getting.

State highways now get about 22 million dollars—17 million from the state primary road fund, about five million in federal aid. County secondary roads now are getting about 13½ million a year.

Thus, the legislature's road study committee would add almost 11 million dollars to the funds available for state highways, but less than three million to the amount spent on county roads.

The committee would raise the extra money needed for its program by making minor changes in car and truck license fees and by taking some motor vehicle use tax and sales tax money out of the state's general fund. It also suggests a $10 license fee on tractors used in highway transportation (hauling grain to elevators, etc.).

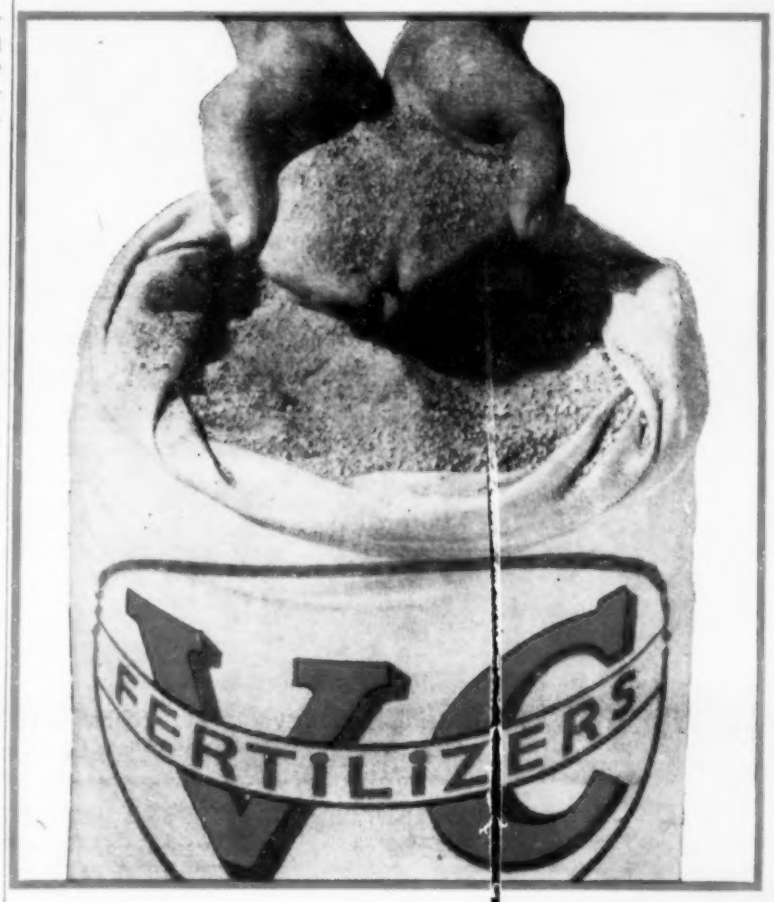
The committee report complains that the primary highway fund has been hard pressed and that the last legislature had to kick in with extra funds to match federal money available for Iowa.

(Proceeds from certain state taxes go into the primary road fund. But the fund is limited to 17 million dollars—any tax money over that goes to county roads.)

What the report fails to mention is that a big slice of state highway money now must be used to pay off highway bonds—and that this burden will be out of the way by 1950.

"I had a little trouble getting the plane in the hangar, dear."

FREE-FLOWING EASY-DRILLING



YOU can see the free-flowing, easy-drilling quality of V-C Fertilizer, as soon as you open the bag.

Run your hands down into the smooth, mellow mixture and let it pour through your fingers. V-C Fertilizer is mealy, loose and dry . . . and it stays that way in all kinds of weather.

It's a pleasure to use V-C Fertilizer, because its excellent mechanical condition makes it so easy to distribute. It flows through your fertilizer distributor smoothly and evenly with no clogging, no bridging and no lost time.

When you distribute V-C Fertilizer, every plant in your field gets its full share of V-C's better plant foods. Your crop comes up to a good stand . . . makes healthy growth . . . develops a strong root system . . . has vigor to resist disease and adverse weather . . . and produces abundant yields.

When you buy V-C Fertilizer, you can see you have made a good investment. You can see it in the quality of the fertilizer. You can see it in the profitable yields of your crop.

Buy Your V-C Fertilizer Now!

The demand for V-C Fertilizers is breaking all previous records by a wide margin. To make certain you obtain the V-C Fertilizer you need for your 1949 crops, see your V-C Agent today! Give him your order now and tell him you want your V-C Fertilizer just as soon as shipment can be made. It's easy for you to store your V-C Fertilizer on a floor or platform in a dry, weather-proof building. Now is the time to make sure you get free-flowing, easy-drilling V-C Fertilizer for your 1949 crops!

V-C Fertilizer is a properly-cured, superior blend of better plant foods.

V-C Fertilizer stays in good condition, when stored in a dry building.

V-C Fertilizer flows through your distributor, smoothly and evenly.

V-C Fertilizer produces a good stand, uniform growth, profitable yields.

Virginia-Carolina Chemical Corporation
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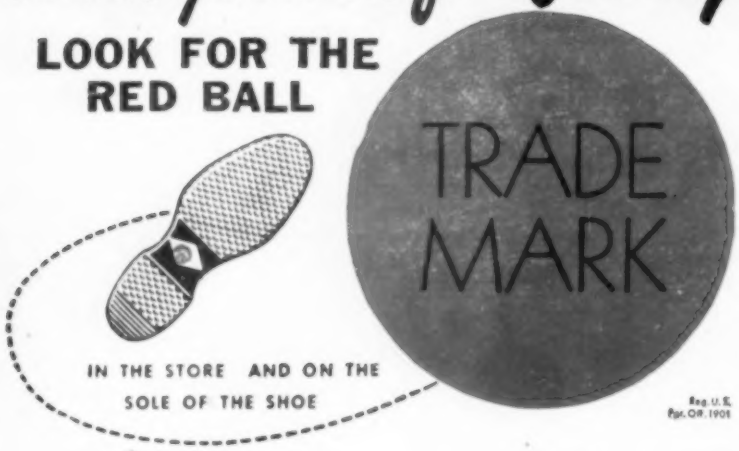

You'll find everything you want in rubber footwear for work or play—longer wear—style—fit—comfort if you go to the store that displays the Red Ball trade-mark. The Red Ball has been the symbol of honest values for more than 50 years. To save your shoes, and keep healthy and comfortable get Ball-Band at the store that displays the Red Ball.

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5-Buckle Arctic—Extra height. Rugged yet flexible, unbeatable for all outdoor work.

Sheboygan Boot—Zero means nothing if you wear this boot. Ankle-hugging shearling cuff! "Toasty warm" fleece lining! Women's and junior sizes, white, black, brown.

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36" chain saw..... 399.00
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Prices F.O.B. St. Paul

POWER TOOLS, Inc. 1959 University Avenue, St. Paul 4, Minn.

—PUT SOME OF THAT EXTRA CASH INTO SECURITY BONDS—

WHAT'S AHEAD FOR HOGS?

Will You Raise More Pigs In 1949?

Farmers Plan More Early Litters, But Aren't Quite So Sure About Late Pigs

PILES of corn in the barnyard usually make farmers think about raising more pigs. But how many more?

The United States Department of Agriculture is asking for a 17 per cent increase in spring pigs in the nation, 23 per cent in Iowa.

Will farmers boost production that much?

The December pig survey, out late this month, will give a clue. But intentions sometimes change from December to May.

Nobody argues about early pigs. If a farmer has a place to put them, early pigs will make money. So will late pigs, probably. But just how many can the market stand? That's what farmers wonder.

They fear that a surplus of corn this fall may turn into a surplus of hogs next winter.

Best parallel to present situation is back in the fall of 1942. Then the United States had the biggest supply of corn of any year—up to 1948.

Corn price in Iowa that fall was around 60 cents. Farmers figured they might get a loan of 85 cents in the fall of 1943.

Their choice was: Should they:

1. Try for an 85-cent corn loan in the fall of 1943 and stay out of the hog business?

2. Try for $13.25 hogs (Chicago support price) in the fall of 1943 and feed the corn to hogs?

Under the stimulus of the good price for hogs, and of war needs, farmers went in for hogs. They increased the spring pig crop of 1943 by 21 per cent over 1942. In Iowa, the increase was 19 per cent.

Will we get that kind of an increase in 1949?

In favor of the increase are these factors:

1. Nationally, the goal for 1949 is only about as large as the actual spring pig crop in 1942.

2. Price supports are around $17 until the end of 1949.

3. So long as employment and pay rolls are high, the actual market price may run above supports.

Against any big increase in pig numbers are these points:

1. Farmers feel sure of a corn loan around $1.35 to $1.45 in the fall of 1949. That may look better than a hog support price of $17.

2. The 90 per cent of parity support price for hogs winds up December 31, 1949. Hogs marketed after that may get some support, but nobody knows how much.

3. Farmers remember the difficulty the government had in supporting hog prices in the winter of 1943-44, and are not too sure about hog supports really working.

Wallaces' Farmer and Iowa Homestead asked D. J. Schnittjer, of Delaware county, Iowa Master Farmer and livestock man, what he would say to a young farmer who asked: "Should I raise a lot more pigs in 1949?"

Schnittjer replied: "If a young farmer has plenty of equipment, and can get his hogs to market early, he ought to make money by increasing production. . . . But if everybody goes in for a big increase, the market will go down and nobody will make any money.

"If there is a surplus of hogs, they still have to be sold. If you have a surplus of corn, you can hold it. For farmers, it is safer to have too much corn than too many hogs."

Early in the fall, Iowa farmers, reporting thru the Wallace-Homestead Poll, said they expected to increase by 11 per cent the number of sows saved for spring farrowing.

What they think now will be clear when the federal December pig survey is released. In the meantime, a lot of sows and gilts have been bred. But not all will be kept for farrowing.

Many farmers will wait until January or February to make up their minds finally about the size of the spring pig crop.

INCOME TAX TROUBLE?

You can save headaches by asking us to send you a FREE COPY of a brand-new Extension Service bulletin on how to figure farm income taxes.

Money-saving changes in the revenue laws are described. Actual samples show you exactly how to make out your tax return. You can get a free copy of the bulletin by mailing coupon below.

FREE INCOME TAX BOOKLET

Please send me a free copy of the new farm income tax bulletin. I enclose a self-addressed, stamped envelope.

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(Mail this coupon to Department A, Wallaces' Farmer and Iowa Homestead, Des Moines, Iowa.)

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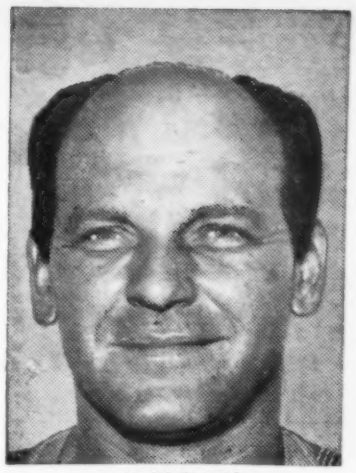


Mr. W. Rietveld

"WYNN'S FRICTION PROOFING OIL...*in our trucks Summer or Winter!*"

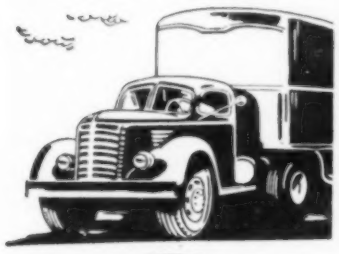
That's the *emphatic* statement of Mr. W. Rietveld, owner of the Rietveld Truck Lines of Des Moines, Iowa! "Out where the tall corn grows"... Rietveld Trucks are as familiar a sight as the state's most famous product. He continued:—

"We don't know the meaning of 'hard starting' in zero weather here, nor of 'boiling over' when the thermometer is past the 'ninety' mark, with Wynn's Friction Proofing Oil.

Fact is, it is the only oil additive that helps us 'lick the weather'! Since we have been using it, we haven't had a single case of sticking valves or stuck rings and it's sure boosted the H.P. of our KB International and White Trucks.

"We know, because we do all our own mechanical and shop work."

H. M. BOCKES
Arnolds Park, Iowa



WYNN'S FRICTION PROOFING OIL

MANY MACHINES IN ONE

Basic unit with Standard 7 HP Motor saws down trees, bucks them up and clears brush land, quickly turns waste land into fertile fields. Available attachments include: post hole digger, sickle bar mower, land tiller, generator, electric welder. More diversified than any other farm machine. Ideal for custom work. Free literature and low prices on request. Write today.

OTTAWA MFG. CO., 1-807 Walnut St., Ottawa, Kans.

OUTSIDE STUFF

Seems like the younger they are, the more they like to "help" Daddy. This is Gary Hulsebus, son of Fay Hulsebus, a Cass county, Iowa, farmer. Gary will soon be four years old.

• • •

SPRAYING plus better cultural practices killed lots of weeds in flax this year. Minneapolis federal grain inspectors report 1948 weed seed dockage is the lowest in history.

• • •

BENNETT Lee, Calhoun county, Iowa, operates his farm on this theory: "Hauling all your grain to town and not putting anything back on the land is selling your farm a piece at a time."

• • •

"LOTS of folks think this black land is too good to leave seeded down the second year. On a one-year basis, maybe you can't afford to cut down on the corn, but that's not true over the long pull," Lee says.

• • •

HE REMINDS me a little of the semi-retired, elderly man who recently showed me his feeder cattle. He said they cost a shade over 30 cents. I asked what he thought they would bring when they were ready to sell.

• • •

"YOUNG feller, that don't worry me too much," he answered. "I've stayed away from cattle for four years, and haven't hauled any manure, either. I guess it's time to start hauling out the manure, even if I get nicked on the cattle."

• • •

A FARMER in Clayton county, Iowa, told me quite a machinery story. Thirty-nine years ago, this man's grandfather bought a new elevator for $125. The grandson used this elevator for a number of years. This fall, the grandson bought a new elevator which cost $800. But the 39-year-old elevator was sold for $300.

• • •

NITROGEN fertilizer on brome grass pasture not only gives the grass an early start—the grass has more protein, says Ray Lange, another Clayton county farmer. Last spring, he used nitrogen on his brome grass and turned his herd of Guernseys on pasture the first of May.—W. D. Inman.

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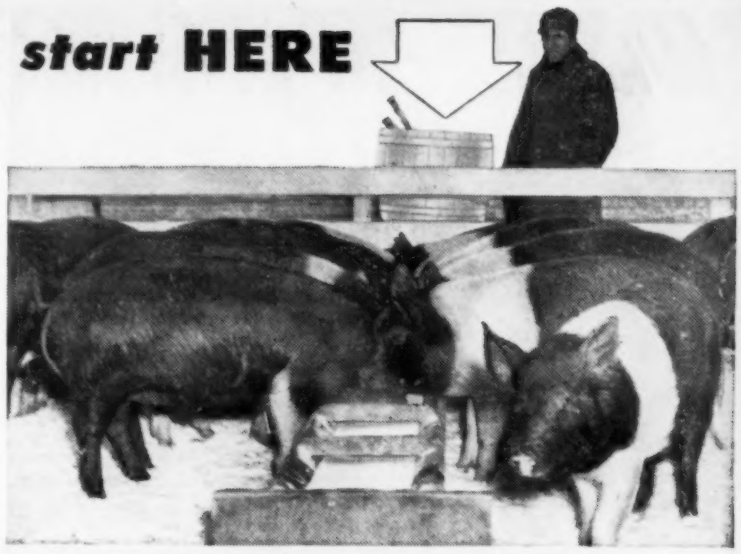

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The many basic ideas of the Semi-Solid System center around one single feature — Semi-Solid PIG Emulsion. In fact, Semi-Solid PIG Emulsion makes possible the success of the Semi-Solid System.

To market hogs you feed ½ pound of PIG Emulsion mixed with a half gallon of water per hog each day. Sows in gestation — 1 pound of PIG Emulsion per day.

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"The Semi-Solid System" OF RAISING HOGS

The NEW CLIPPER **'27'** GRAIN, SEED AND BEAN CLEANER

A big capacity cleaner for larger farms—at a price you can afford to pay! Larger, faster, and more efficient than previous farm models, the new "27" is designed for either fast cleaning direct from the combine or for selective cleaning and grading of seed stock. Six screens of your choice are furnished. Extra screens are available from a selection of over 150 sizes.

Clean and treat in one operation with the "27" and the new Rocker Treater combination at little extra cost!

Cleans up to 125 bushels per hour!

Traveling brushes under bottom screen!

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Portable..smooth light running! (1 H.P.)

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New Jamesway Barn Cleaner

SAVES 1⅓ HOURS every day

Report
Maurice and Howard Smith, Lake Mills, Wis.

It's here! A *new* kind of electric barn cleaner — one that ends the toughest, hardest, most back-breaking chore on the farm. "Before we got our Jamesway barn cleaner," says Howard Smith, "it took us 1½ hours to clean up after 41 cows. Now we do it in 10 minutes."

Mr. Smith likes the Jamesway barn cleaner best because of its new, exclusive shuttle action. It uses *no* gutter chains. Makes cross gutters *unnecessary!*

Find out *all* the facts about this new barn cleaner now! See your Jamesway dealer. You'll be surprised how much money you'll save by putting a Jamesway cleaner in *your* barn. For free literature, write James Mfg. Co., Fort Atkinson, Wisconsin, Dept. WF1248

HOW IT WORKS

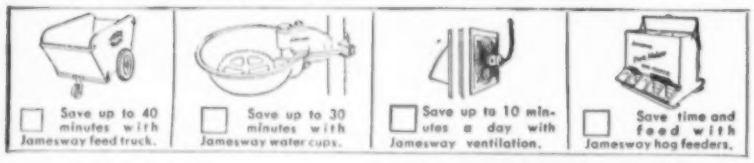
PULL STROKE. Hinged blades attached to square tube pull manure 8 feet at a single stroke. No gutter chains to wear, rust, or break.

PUSH STROKE. Blades fold against tube and slide past manure. This repeated shuttle action quickly cleans the gutter. Power unit is outside.

Here Howard Smith, right, and his father, Maurice, time their Jamesway barn cleaner. This barn is 100 years old—made modern with Jamesway plans and equipment.

Here Howard Smith, right, and his father, Maurice, time their Jamesway barn cleaner. This barn is 100 years old — made modern with Jamesway plans and equipment.

CHECK THIS JAMESWAY CHART TO SEE HOW MUCH TIME YOU CAN SAVE



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The Herd Seeders Will Operate Anywhere Your Tractor Will Go

Mounts on all tractors and Jeeps without special brackets . . . seeds any place the tractor will go. No battery drain . . . no expensive motor to repair or replace with the Herd Seeder. Operates from power take-off with a two-speed pulley. Sturdy construction of heavy castings, bronze and Oil-lite bearings with Zerk grease fittings. Herd Agitator positively prevents clogging . . . assures smooth feeding, even seeding . . . even with inoculated seed.

HERD SEEDER COMPANY Write for Free Folder and Name of Nearest Dealer ROYAL CENTER 2, INDIANA

They'll Build more bins. Directors of the Commodity Credit Corporation are talking about need of 50,000 tons of steel to construct bins necessary to hold CCC wheat and corn next summer and fall. From left to right: Fry of Tennessee, Trigg of PMA, Agriculture Secretary Brannan, Loveland of Iowa, Harris of California.

Washington Wire

To Help Farm Prices Thru Exports

How the News Behind the Headlines Will Affect Your Prices and Income Next Year

WASHINGTON, D. C.—**Corn is selling below support prices. Will hogs also drop below support levels if things get tough?**

Farmers would like to know. Secretary Brannan and the Department of Agriculture are quite likely to tell them.

In the first place, farmers should note that the Department of Agriculture, not the private grain trade, is going to handle grain exports.

This may mean that exports of grain are more apt to be used to bolster prices at home.

In the second place, exports of meat are probable if hog prices should ever run into real trouble.

When will Secretary Brannan make any definite pledge to farmers on hog supports?

Very likely he'll wait until after the December pig survey is completed. If the spring pig crop looks as if it would fall short of the 60 million asked by the USDA, he may:

1. Promise to support hog prices at around a $17 average thru the period October, 1949, to April, 1950.

2. Arrange to provide this support by liberal government purchases and exports.

The same thing may happen on dairy products. If dried milk, cheese, condensed milk get into trouble, the government may boost exports in these fields.

Will the new congress put supports at a flat 90 per cent of parity or try a flexible support program of from 60 to 90 per cent?

Chairmen of senate and house agriculture committees are cotton and tobacco men who want flat supports at 90 per cent. But congressmen from the middle-west feel differently.

The administration is caught between pressure of labor groups for lower food prices and demands of farm groups.

Secretary Brannan may ask for a revision of the law, so that flexible price supports will remain but with the secretary given power to set these supports under 90 per cent if necessary.

Under the present law, heavy stocks in 1950 might pull supports very low for wheat and corn. Yet the international situation makes it look sensible to keep big stocks on hand and to avoid penalizing farmers for high production.

Under the Brannan proposals, the loan in 1950 for corn might be cut to 80 per cent instead of to a possible 65 under the present law.

Will the government permit the market price to drop, and pay farmers the difference between the market price and the support price?

Men in the administration like the idea. But the National Grange, at its recent convention, turned the proposal down.

Joseph Fichter, master of the Ohio Grange, supported this plan at the Grange meeting. Fichter says that the tax-payer will get tired of paying twice for farm supports, once as a consumer and a second time as a tax-payer.

Under the compensatory payment plan, says Fichter, the tax-payer will only pay once—as a tax-payer.

If price supports continue to stay at around 80 per cent of parity, won't that encourage more production than we can use up?

That depends on how we use it, and on the particular crop. Wheat and cotton would have trouble. Meat, dairy products might not.

Secretary Brannan offers these ways of "living with abundance":

1. Extend school lunch to all public schools.

2. Use subsidies to help low-income folks buy better diets.

3. Negotiate international agreements aimed at providing long-term export markets for wheat, cotton, tobacco and fruits.

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13½ FOOT BODY Equipped with UNDER-BODY HOIST $651.88 Tax Paid at Factory

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—OUR ADS ARE NEWS—

Tips For December

Seasonal suggestions from farm management men at Iowa State College:

▲ ▲ ▲

REPAIR MACHINERY now. Foreign aid and military defense programs are putting the squeeze on steel—it may be harder to get in the next year or two. So get your machinery in shape now to last a couple of years.

▲ ▲ ▲

THICK FROST on the walls or ceilings of your livestock buildings means poor ventilation. Slot-type ventilators work best on low-roofed buildings. Flue-type ventilators are O. K. for buildings with enough height to keep air moving up the flue. Ask the Agricultural Engineering Department at Iowa State College, Ames, Iowa, for detailed information on how to ventilate your buildings properly.

▲ ▲ ▲

MODERN KITCHENS don't have to be brand-new. One Story county, Iowa, farm family modernized their old-style kitchen into a first-rate labor-saving room. By careful planning, you can cut down on tiring movements—walking, lifting, stretching, stooping.

▲ ▲ ▲

INCOME-TAX time will soon be here. If you do not have a good set of records of your 1948 business, make a New Year's resolution to start 1949 by keeping a farm record book. You will be surprised how much help it is at figuring taxes.

▲ ▲ ▲

GO EASY on feeding corn to bred sows. We usually raise the most pigs per litter after a short corn crop. That's because farmers go easy on corn, feed more oats and protein to brood sows. That means better litters in the spring.

▲ ▲ ▲

ALFALFA makes good hog feed. Lee Hill, Warren county, Iowa, feeds plenty of loose alfalfa hay to his brood sows. Pigs from sows fed alfalfa hay do better. If you grind your hay, coarsely ground alfalfa works best for hogs.

▲ ▲ ▲

DAIRYMEN short of hay can step up the amount of grain and protein fed. Lower feed costs favor full feeding of dairy cows this winter.

▲ ▲ ▲

CLEAN SEED OATS this winter. Then you will have one job out of the way when the spring rush comes up. Better check your grain seeder or drill, too.

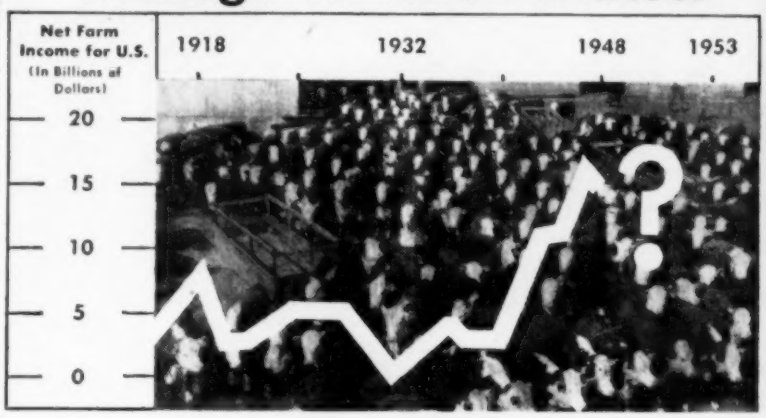
▲ ▲ ▲

LIFTING full milk cans is a thing of the past on the farm of William Moser, Story county, Iowa. He rigged up a set of pulleys and attached a pair of hooks to a rope. Now his daughter can swing the cans into the cooler with little effort.

▲ ▲ ▲

NEXT TIME it snows, check your foot-tracks around the barnyard after doing chores. Then sit down and try to figure out how you could cut out some of those trips. One Warren county, Iowa, farmer put a feed room in his barn. A Page county, Iowa, farmer moved a gate. The result: Saved steps.

WHICH WAY WILL PRICES GO? Here's an IMPORTANT Message to Iowa Farmers!



This chart shows how farm income can—and does—vary from year to year. Nobody knows which way the line will swing next year, although today many farmers are beginning to feel the pinch between higher operating costs and lower prices.

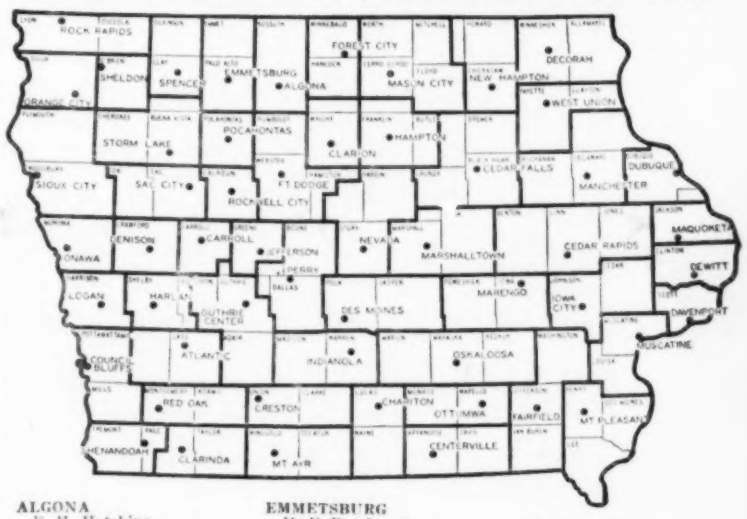
Everybody does know it's **tomorrow's** income that pays **today's** loan. So when you get a loan on your land . . . to buy land, to refinance debts, to pay for improvements, or for any other purpose . . . take this tip: Protect yourself from getting hurt by any changes in your income.

A FEDERAL LAND BANK LOAN PROTECTS YOU

Payments on a Federal Land Bank loan are based on the NORMAL year-in, year-out earning power of your farm. Your interest rate will never go over 4%. You pay no fees or commissions. You have up to 40 years to pay. But you may **pay off** your Federal Land Bank loan **any time** from farm income **without penalty.**

Investigate today! For full information, call on the National Farm Loan Association serving your county.

NATIONAL FARM LOAN ASSOCIATIONS SERVING IOWA



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Your 100% Farmer-Owned Cooperative

Guides the Way to SAFE FARM LOANS

To play fair with your soil, and for bigger yields to come—use Smith-Douglass fertilizer along with lime, crop rotation, barnyard manure.

Are you fair

TO YOUR FARM?

How does your soil compare with ten years ago? Can it stand the pace of higher yields from hybrid corn and new oat varieties?

A 100-bushel corn crop removes almost twice as much plant food as a 60-bushel crop — 322 lbs. of nitrogen, phosphorus and potash for 100 bushels, compared with 168 lbs. for 60 bushels.

You can improve your soil while taking off big yields — but you must play fair. The right program of lime, barnyard manure, crop rotation — and mixed fertilizer — will do it.

• MELLOW-AGED FERTILIZER •

Mellow-aging is the Smith-Douglass process of curing mixed fertilizers. Correctly blended fertilizer is held in huge storage bins until chemical action fuses and blends all the ingredients. It will not cake or harden again if properly stored and handled — assures excellent drilling and plant feeding qualities.

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MIDWEST DIVISION
Streator, Ill. • Albert Lea, Minn.

NEW SENSATIONAL Automatic HOG OILER WITH PATENTED BELLY RUBBER

FIGHT MANGE and OTHER PORK PROFIT ROBBERS This Easy Way

Famous Automatic Hog Oiler, with Patented Belly-Rubber, gives outstanding performance—safe—good for pregnant sows. Treat your hogs for lice, mange, scurf, easily, effectively. Hogs do the work. YOU get the profit. Rubs in special medication which penetrates scab blister, soothes, kills lice and mange-mites. Aids healing. Saves handling—saves dipping and spraying losses. Available in double or single units. Order today.

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MAIL COUPON TODAY
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Automatic Equipment Mfg. Co.,
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Rush free information on 10 day free trial offer and prices on
☐ Double Units ☐ Single Units
Name .....
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I'm also interested in
☐ Cattle Currier ☐ Tractorkab

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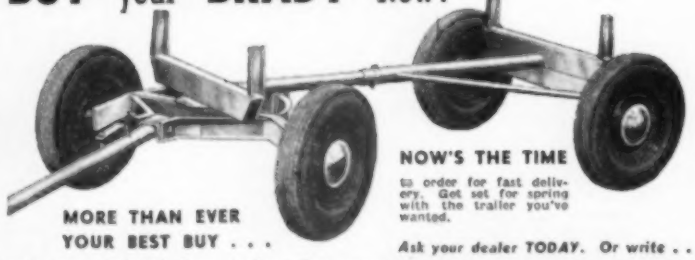

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NOW'S THE TIME
to order for fast delivery. Get set for spring with the trailer you've wanted.

Ask your dealer TODAY. Or write . . .

BRADY MFG. CO.
S. E. 30th and Granger Des Moines

Service Bureau

February Best For Corn Prices

To the Editor: For December, January and February, which month shows the highest average corn prices?—Mrs. W. H., Palo Alto County, Iowa.

Here are the average prices per bushel received by farmers in the United States for the months named. The average covers an 11-year period, 1936-46: December 15, 80.6 cents per bushel; January 15, 83.5 cents; February 15, 85.8 cents.

Children Must Help Parents

To the Editor: I am supporting my 70-year-old mother, and expenses just about have me down. I am wondering if she could get old-age assistance.—H. D., Scott County, Iowa.

The State Department of Social Welfare says: "Parents and children are legally responsible for the support of the applicant. If they are unable to give full support, assistance may be issued to provide any deficit."

You should make application to your county Department of Social Welfare.

Deferment Up To Local Board

To the Editor: Would you let me know if farm boys can get deferment from the draft? I work more than 300 acres, and can't do the work alone.—C. R., Dickinson County, Iowa.

State Selective Service headquarters says there is no blanket deferment of farm workers. Every case is decided on the basis of its individual merits. Classification is determined by the local board, which bases its decision on information furnished by the man himself in writing.

Generally, the situation is similar to war-time. The individual is notified of his classification. Then he has the right to appeal to the State Appeal Board.

Is Your Corn Loan 1948 Income?

To the Editor: If I seal corn and accept money as a loan from the government, must I report it as 1948 income or as 1949 income, when I sell it?—B. C., Louisa County, Iowa.

You have a choice. First, you can report the loan as income this year, when you receive the money. Then, when you sell the corn, you would report any additional income which might be received at that time.

Or, you can regard the transaction as a loan, and report the income next year, when you deliver the crop.

But, if you start reporting it one way, you must keep on reporting it in that way unless you get permission to change from the Internal Revenue Department.

The Perfect Gift!

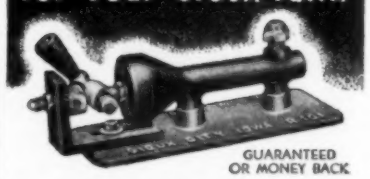
He'll be truly grateful for this perfect gift, the WORLD'S MOST COMPLETE HAND TOOL for the work shop, home, garage, sportsman—for EVERY USER OF TOOLS. Adjusts to plier action or locks to the work, freeing both hands. ALWAYS THE BEST—NOW, BETTER THAN EVER!

New **INVOLUTE JAW CURVE** gives tremendous holding power. New **KNURLED JAW TIPS** hold to the very tip. New **THIN NOSE.** New **SUPER WIRE CUTTER.** Easier to open. Fine Alloy steel. Nickel plated. With cutter—7", $2.25; 10", $2.50. Without cutter—7", $1.85; 10", $2.25.

If not at your dealers, order direct. Postage paid if price accompanies order.

PETERSEN MFG. CO., Dept. W-12, DeWitt, Neb.

NOW BOTTLED GAS HEAT for Your Stock Tank



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★FULLY AUTOMATIC
★CHEAPER OPERATION
★COMPLETELY RELIABLE

The "Miracle" Bottled Gas Heater is the complete answer to your stock tank heating problem. No more oil lamp filling, wick trimming or soot! No units to burn out! Cheaper operation than any other fuel or electric heater. Thoroughly tested! MAIL COUPON TODAY FOR COMPLETE INFORMATION . . .

DEALER INQUIRIES INVITED

Golden Glow Mfg Co., Sioux City, Iowa
Without obligation, please send me complete information on the "Miracle" Stock Tank Heater.
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CITY STATE

Golden Glow MFG. CO.
4110 MORNINGSIDE AVE. SIOUX CITY, IOWA

Enjoy Indian Summer All Winter Long In . . .

JACKSONVILLE, Fla.

THIS friendly gracious city holds endless charms for vacationists. Exceptional variety of pleasures include beach fun, excellent fresh and salt water fishing and fine hunting. Reasonable rates, too.

You'll find new vacation joys in Jacksonville—and you'll revel in the golden Indian Summer climate. For rates, accommodations and other information write:

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LOCAL LUMBER DEALER
Today! He Is in Business to Help You!

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ADDED GEARS
for YOUR TRACTOR

Speeds up your old model
JOHN DEERE A or B

New intermediate speed for
FARMALL H or M

A real road gear for
FARMALL F-20, F-30
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NEW
IMPROVED Behlen
GEAR BOX

JOHN DEERE A or B

Put new speed in your old model John Deere A or B. Makes it many times more useful. New Behlen Gear Box adds two extra speeds—9 and 15 m.p.h. Does not interfere with present gears. Just shift gear. Think of the time you can save. Precision-built. Fully guaranteed. Worth many times the amazing low price.

FARMALL H or M

Here's that in-between speed you've been wanting for your Farmall H or M. New Behlen Gear Box gives you intermediate speed of 10 m.p.h. Valuable for field work, or bucking hay, etc. Or if you prefer, you can have 7 m.p.h. gear box. Quickly, easily installed. Guaranteed. Low priced.

FARMALL F-20, F-30 or REG. MODEL

Now do 14 to 15 m.p.h. on your old Farmall F-20, F-30, or Regular Model. Just shift gear and away you go. Gear box for 10 m.p.h. also available for F-20 and Regular Model only. Easy to install on tractor with or without hydraulic Lift-All Pump. Thousands in use today.

Get the full story on the New Behlen Gear Box. Write for name of Behlen dealer nearest you. Please indicate make of tractor you are interested in.

BEHLEN MFG. CO.
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WEED and INSECT CONTROL
with the HANSON Sprayer and CHEMICALS

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Hanson chemicals are especially formulated for low-gallonage spraying that has proved its effectiveness in numerous tests. Crop yields are greatly increased. See your local farm dealer displaying the Hanson sign of quality products.

Chemicals and Equipment for Agriculture

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BELOIT, WISCONSIN

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A Name You Can COUNT On
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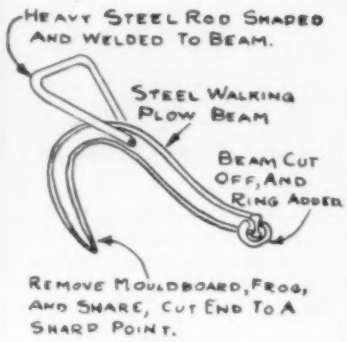
FORT DODGE, IOWA

WORMY PIGS? Doctor Hinrichs' Hog Powder. Put in feed. No starving. 5 lbs., $3 Postpaid.
HINRICHS REMEDY CO., WALCOTT, IOWA

HANDI-HINTS

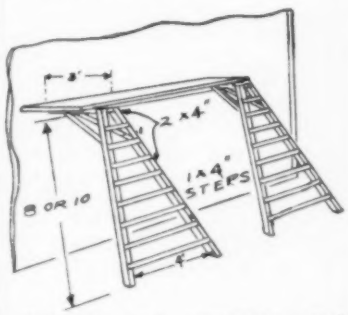
Hook From Plow Beam Will Move Stones



For clearing land of stones or small stumps, a good, strong hook is needed. You can make one out of an old plow beam. Take off the plow bottom and get the lower end sharpened. Then shape a heavy rod into a handle and weld it to the beam about where the curve is greatest. This will enable you to hold the hook in place until it gets under the rock or stump. Then put a heavy ring in the front end of the old plow beam.

With a tractor for power, this hook will enable you to remove stones, roots or stumps which are a nuisance in plowing your fields.

Movable Scaffold Is Handy On Farm



Painting and carpenter work are made much easier with this portable scaffold. The legs are about 10 feet long and made of 2x4's. The top piece is a 2x4 about three feet long. Braces and steps are of 1x4's. By putting two bolts near the bottom of each leg, you can adjust them to any height you want.

By putting an extension ladder horizontally across the jacks and placing a 12-inch board on top of the ladder rungs, you have a dandy working scaffold.

The main thing in building the scaffold is to put the jack or top piece at such an angle that when it is level the legs will stand out about two feet at the bottom.

Right Way To Sharpen Knives

To sharpen a knife right, turn the grindstone or emery wheel against the cutting edge and at moderate speed. Start with the heel and draw the knife toward the tip. Too much pressure or too much speed will overheat the blade and destroy the temper in the steel.

YOU GET STEADIER TRACTION
with PEERLESS
KRISS×KROSS
TRACTOR CHAINS

Don't slow up farm work because of wet or slippery ground! Chain your tractor with PEERLESS KRISS-KROSS tractor chains!

They grip the ground, can't harm your valuable tractor tires. KRISS-KROSS self-cleaning links form a continuous chain mat that covers maximum tire surface. The result is greater riding comfort, better traction!

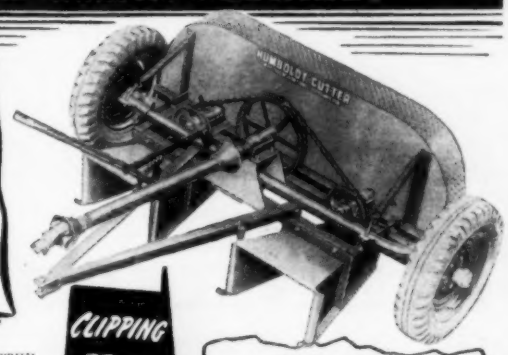
Case-hardened from tough, alloy steel, PEERLESS KRISS-KROSS tractor chains will give you maximum trouble-free service. See your nearest PEERLESS DEALER.

PEERLESS
CHAIN COMPANY
WINONA, MINN.

Manufacturers of chains for passenger cars, trucks and tractors—chains for every need.

CONTROL OF CORN BORER...
STARTS WITH STALK CUTTING AND CLEAN PLOWING!

THE Humboldt STALK CUTTER



The HUMBOLDT STALK CUTTER is the machine they are all talking about! COMBATS THE CORN BORER IN TWO WAYS. (1) Its whirling, crushing blades (1,000 R.P.M.) chop, shred and pulverize the old corn stalks, destroying countless borer larvae. (2) These finely chopped and crushed stalk pieces are easier to plow under clean and deep, killing remaining larvae. Corn borers can't survive under earth. Also enriches the soil. Tractor drawn and power driven. Timken Bearing equipped.

SEE YOUR HUMBOLDT DEALER

Ask him to explain and demonstrate the Humboldt Stalk Cutter. Or write the factory for new circular in colors, prices and corn borer information, FREE. Write Dept. W-12.

CLIPPING FROM NOV. 20TH ISSUE OF WALLACES' FARMER

YOU CAN LICK MR. BORER

You don't have to accept corn borer damage year after year. Maybe you can't kill all borers, but you can control them so damage will be slight. Consider doing some of these things:

Late fall or early spring clean plowing helps kill the borers.

Any measure that destroys infested stalks kills borer larvae. Shredding, ensiling or crushing stalks will reduce the number of borers.

THE SILBAUGH MFG. CO., HUMBOLDT, IOWA

—START SAVING NOW THE EASY U. S. SECURITY BOND WAY—

MORE SPRING PIGS MEAN...
MORE MONEY FOR YOUR CORN!

KENT 35% PIG & SOW CONCENTRATE

FED TO YOUR BRED SOWS NOW, BUILDS STRONGER & LARGER LITTERS!

Your income this year will be more if you market your corn through a larger crop of healthier, thriftier Spring pigs. Your sows are now building pigs and it will pay you to include KENT 35% PIG & SOW CONCENTRATE in the ration in order to fortify them for maximum litter production. KENT 35% PIG & SOW CONCENTRATE is "super-fortified" with more than double the minimum requirements of needed vitamins. It is the feed you need to assure that your pigs will receive the proper pre-natal nutrition. Order a supply from your local KENT dealer today!

"I have found KENT 35% PIG & SOW CONCENTRATE to be excellent for bred sows and little pigs. This past Spring, I had 32 sows who farrowed an average of 8-plus pigs per litter. With this good start, I marketed 260 hogs in 6 months with an average weight of 247 lbs. For your bred sows, I recommend KENT 35% PIG & SOW CONCENTRATE to balance your grains."
John Welsh
RR2 Williamsburg, Iowa

KENT FEEDS
MISSISSIPPI VALLEY GRAIN AND FEED CO.
MUSCATINE, IA.
See your local KENT dealer.

NEW PERMCO ROUND CRIB TOP

FOR YEAR 'ROUND PROTECTION

Meet the demand for this year's excessive crop. When you store your crop . . . store it right . . . use the cover that gives you permanent protection, Permco.

PROTECT YOUR CROP IN ANY WEATHER

SOLVE CORN CRIB STORAGE PROBLEMS

The Permco waterproof top easily pays for itself in saving of corn and cost of replacing temporary paper or canvas covers. Permco is easily assembled and gives years of valuable service . . . keeps your corn safe from water seepage and expensive rot.

Permco tops are made of the highest quality wood products obtainable; pressed wood, with an aluminum paint finish.

DON'T TRUST CANVAS OR PAPER TO COVER YOUR CROP

Permco Round Crib Tops are favorites with farmers now using these tops. Just mail this ad . . . or drop us a post card and we will send you all the particulars. This year don't go without something you need . . . it'll make you money.

PERMCO MFG. CO. PERU, NEBRASKA

TWO IN ONE TRACTOR CAB

NEW and IMPROVED!

The "All Weather" Cab—For Winter and Summer! Fully Adjustable for Height!

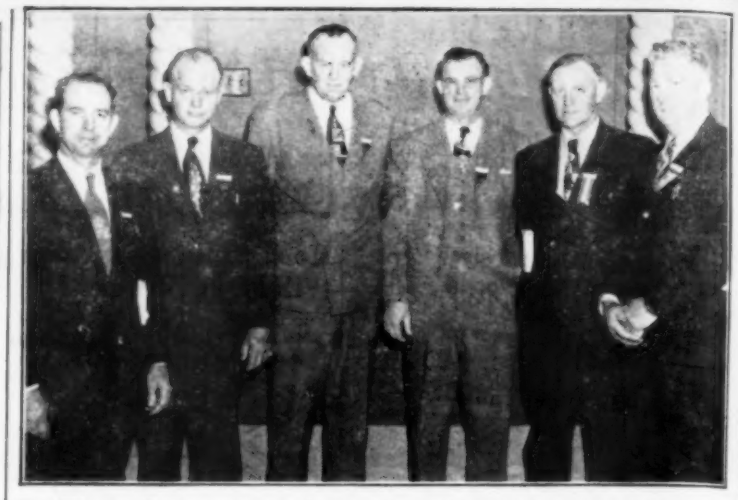
Here's inexpensive protection from winter cold and summer heat. Rigid steel construction. Top and side curtains of heavy waterproof, fireproof cotton duck. Side curtains, with large windshield, wide rear and side windows, *are quickly and easily removed for summer use.* Cab is large and roomy—stand up while you work. Easily changed from one tractor to another. Specify make and model of tractor and how to ship when ordering.

Lowest priced "All-Weather" Cab on the market . . . F.O.B. Omaha $59.50

Tractor owners write for free literature, or see your implement dealer. Dealers and jobbers write for particulars.

OMAHA MFG. CO. 903 So. 20th St. Omaha, Nebr.

—SAVE MONEY THE EASY WAY—BUY SECURITY BONDS NOW—



Re-Elected Iowa Farm Bureau vice-president was Dick Stephens (left), Washington county. Directors named were, from left: Wayne Anderson, Montgomery; Leroy Getting, O'Brien; Howard Waters, Des Moines county; Joel Clark, Clayton; Martin Lauterbach, Hardin. Clark replaces Fletcher Aitchison, Dubuque. Others re-elected.

Let Extension Alone, Says Farm Bureau

Delegates Also Ask For More Local Control Of Federal Agencies Such as SCS and PMA

THRU its tie-up with the Farm Bureau, the Extension Service has been able to do a much better job. That's the Iowa Farm Bureau's answer to suggestions that Extension and Farm Bureau be divorced.

Besides, said delegates to the IFBF's recent annual meeting, Farm Bureau has been pouring a lot of money into extension work—something over $600,000 a year.

If any changes are to be made, the Farm Bureau said, let federal, state and county governments pay a bigger share of the extension bill.

Convention delegates also restated their position on an old Farm Bureau peeve—the way federal "action" agencies operate.

Outfits like SCS and PMA, the Farm Bureau claims, at times wander into "partisan politics, policy information or the sponsoring of pressure groups," instead of sticking to administration of farm laws.

To stop this, Farm Bureau folks want more "local control" of federal funds and personnel.

And they want to eliminate "overlapping" of federal agencies—mostly by turning all education over to Extension and putting administrative duties in the hands of farmer-elected county committees.

Here's where the Iowa Farm Bureau stands on other questions:

PRICE SUPPORTS: Keep the parity principle but modernize the parity formula. Use flexible supports to put a floor under prices without creating big surpluses. Keep commodity loan and school lunch programs. Use production controls and food stamp plans when needed. Give Commodity Credit more storage facilities.

TAXES: Base taxes more on ability to pay, less on property. Collect state income tax at full rate and use proceeds to cut property taxes. Don't change state sales or oleo taxes. Raise funds for soldiers' bonus from non-property tax sources. Give county assessor system a chance to prove itself.

SCHOOLS: Reorganize schools to make them better. Use state funds to pay at least 25 per cent of local school costs.

ROADS: Run all-weather road to every reasonably located farmstead. Use more state money to improve secondary roads. Pass out state funds on a 50 per cent area and 50 per cent need basis.

WORLD AFFAIRS: Continue ECA (Marshall Plan). Make full use of UN to establish peace. Be firm with Russia, but fight Communism thru help to democracies, not thru show of military strength.

FOREIGN TRADE: Extend reciprocal trade agreements. Write a new world wheat agreement.

MILITARY TRAINING: Tolerate draft only as emergency measure. Replace it as soon as possible with voluntary enlistment plan.

ATOMIC ENERGY: Keep trying for international control. But keep our "know-how" until sound control plan is worked out. Teach people more about atomic energy.

LIVESTOCK: Repeal law requiring hog cholera vaccination permits. Improve market news service. Require labeling of mixed feeds to show digestible nutrient and vitamin content.

WEED CONTROL: Enforce the state weed law. Make the county commissioner system work. Require counties to do more about roadside weeds.

COOPERATIVES: Don't make co-ops pay taxes on patronage refunds. But don't make corporations pay dividend taxes, either.

HEALTH: Find ways to provide more hospitals, health units, doctors, nurses for rural areas.

Other resolutions called for: More REA funds to build generating plants and transmission lines; a presidential preference primary for Iowa; a September 1 (instead of November 1) date for notices of farm lease termination; more library service for rural areas; a drop in minimum voting age to 18; and night-time broadcasting privileges for Station WOI.

PEERLESS WaterKing

DOMESTIC PUMPING SYSTEM
WITH POSITIVE DISPLACEMENT ACTION

CAPACITIES:
TO 860 GALS. PER HR.
FULLY AUTOMATIC
SELF PRIMING
EASY TO INSTALL, OPERATE, UNDERSTAND

LOW OPERATING COST
QUIET
NO GADGETS
OVER-WELL OR OFFSET
COMPACT
FULLY RELIABLE

PEERLESS PUMPS

WRITE FOR FREE BOOKLET

PEERLESS PUMP DIVISION
Food Machinery and Chemical Corporation
Indianapolis, Indiana
Send your FREE Peerless Water King System Booklet, and name of nearest Peerless Dealer.
Name_____
Street_____
City_____ State_____

Don't neglect
SORE TEATS

... protect them with Dr. Naylor Sulfathiazole Medicated TEAT DILATORS

When **injured, scab, cut,** or **bruised** teats threaten loss of a profitable milk producer—use DR. NAYLOR DILATORS — medicated surgical dressings for the teat canal to combat infection and promote healing. Soft, absorbent—keep teat **open** in natural shape—encourage a normal milk flow. Fit large or small teats. At your dealer's, or postpaid from H. W. Naylor Co., Morris 12, New York. Write for complete catalog.

Easy to insert
Stay in Teat

Large Pkg. $1.00 45 Dilators
Trial Package 50c 16 Dilators

Dr. Naylor
Medicated **Teat Dilators**

The *only* horse that doesn't need

Absorbine now and then

• Absorbine is especially helpful in relieving windgall, curb, thoroughpin . . . puffs, strains and bruises. A stand-by for 50 years . . . Absorbine is used by many veterinarians. Does not blister or remove hair. At all druggists . . . only $2.50 for a LONG-LASTING BOTTLE..

W. F. Young, Inc., Springfield, Mass.

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The **BEAR CAT**
Combination
GRAIN and ROUGHAGE MILL
Also **ENSILAGE CUTTER**

Grinds any feed—green, wet or dry. This feeder really takes in loose roughage, bundles or bale flakes and no monkey business about it. Large capacity guaranteed with ordinary farm tractor. Grinds grain, ear or shapped corn with roughage or separate. Has cutter head and swing hammers. Get full information on this real honest-to-goodness Grinder. Write

Western Land Roller Co., Box 175 Hastings, Nebr.

Winner of Iowa Farm Bureau's Rural Youth talk meet was John Swartzendruver (above), Wapello county. Other finalists: Mary Kolthoff, Polk; Ruth Kelly, Mills; Everett Beals, Story county.

Farm News Briefs

FALL PIGS farrowed in Iowa this year will be from 5 to 7 per cent above 1947, says the Iowa crop and livestock reporting service.

▲ ▲ ▲

RAYMOND SAYRE, Warren county, Iowa, has been re-elected to Omaha Farm Credit Board, representing farm loan associations.

▲ ▲ ▲

CASH SUBSIDIES or production controls are not the way to keep farm income up, said the National Grange at last month's annual convention. The Grange okayed the new flexible price support program, but said continued high industrial production would be the real solution to farm problems.

▲ ▲ ▲

A. L. BROWN, Kossuth county, is new president of the Iowa County Extension Directors Association. H. J. Montgomery, Story, vice-president; E. J. Weigle, Winneshiek, secretary-treasurer.

▲ ▲ ▲

AAA TOWNSHIP committeemen in Iowa are being elected this week and next (December 1 to 9). County committeemen will be chosen December 10.

▲ ▲ ▲

TOP AWARD for county Farm Bureau activities goes to Humboldt county. Other winners: Benton (highest membership); Kossuth (lowest loss of old members); Grundy (best board attendance).

▲ ▲ ▲

TOWNSHIP Farm Bureau units getting special recognition at the IFBF annual meeting were, in order: Lost Grove township, Webster county; Fulton township, Muscatine county; South Marion township, Linn; Newton township, Jasper; Cass township, Boone; Monroe township, Linn county.

▲ ▲ ▲

MRS. CARL HOOVER, Mahaska county, was elected last month to the Iowa Farm Bureau women's committee, succeeding Mrs. R. E. Newcomer, of Appanoose county, who resigned. Committee members re-elected were: Mrs. C. C. Inman, Kossuth county; Mrs. Ross Willey, Monona; Mrs. Vernon Heefner, Linn, and Mrs. Roscoe Eliason, Louisa, state chairman.

MANURE HAULING *Easier...* from Start to Finish

Quick Hitching

• No need to lift the front end of the Case tractor spreader, nor to prop it up. The self-hoisting hitch rests right on the ground while hooking up; lifts front of box when tractor starts ahead. Sliding clevis makes hitching quicker, easier, safer. It's so handy that daily spreading is really practical, whether you have big herds or only a few head.

Easy Loading

• Low wheels and low box make loading easier, faster, whether by hand or by mechanical loader. Self-hoisting hitch lets front of box down for still lower loading. This Case spreader backs into barns, pulls close to piles like a two-wheel cart. Sturdy steel frame, long-lived bearings and good lubrication give ENDURANCE—long life with low upkeep.

Sure Spreading

• Spreader wheels are placed so weight of load aids their "ground-grip" until fully unloaded; full load adds weight to tractor wheels, aids their traction. Sharp beater teeth shred manure thoroughly; steadier apron travel assures even spreading. Geared for rubber-tired speed, this spreader makes practical the extra gains of thinner spreading on greater acreage.

See this Handy Sturdy Spreader. Let your Case dealer show you this stronger, more durable, more convenient spreader. Send for new booklet that tells how to make manure go farther, produce up to twice as big a boost in crop yields. Also mention any size tractor, any implements, haying, harvest machines you may need. J. I. Case Co., Dept. M-80, Racine, Wis.

CASE

70,000 FARMERS CUT TRACTOR OPERATING COSTS!

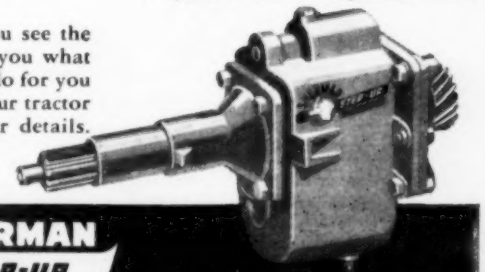
And they get *better* tractor operation . . . . with the Sherman Step-Up Transmission in their tractors.

You can do the same. With the "Step-Up" you can work more acres per day at a substantial per-acre saving in gas, oil, and engine wear.

Ask your dealer to let you see the Sherman chart. It shows you what extra working gears will do for you on your own farm. See your tractor dealer today, or write for details.

NOW AVAILABLE FOR
- ALL FORD TRACTORS
- ALLIS-CHALMERS WC, RC AND WF
- ALL FERGUSON TRACTORS

Pays for itself many times over



SHERMAN STEP-UP TRANSMISSION

SHERMAN PRODUCTS, INC.
ROYAL OAK, MICHIGAN

Let the advertisements in Wallaces' Farmer and Iowa Homestead form your buying directory. If the articles you wish to purchase are not advertised in this paper, we will be glad to give you the names of reliable firms from which you can make your purchases.

ANNOUNCING! IMPROVED MODERNIZED ARCHER LINSEED OIL MEAL AND PELLETS

Get 2 Pounds More Protein per Sack from Modern Archer Quality Extracted Linseed Oil Meal

Two extra pounds of protein in every 100 pound sack ; . . controlled in production for uniformity . . . less dust! That's modern Archer Quality *Extracted* Linseed Oil Meal produced the *Continuous Solvent Extraction* Way.

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WESTERN SILO COMPANY Dept. W-12 WEST DES MOINES, IOWA

Voice of the Farm

Big Dams Put Cart Before Horse

To the Editor: Army engineers, in building river dams for flood control, put the cart before the horse.

A better solution is to hold the water where it falls. Thereby, three important problems will be solved: Soil will be saved; the water level in our wells will be raised, and floods will be checked.

Water can largely be held where it falls by terracing pasture and crop land, by contouring, and by construction of farm ponds.

The construction of river dams —even those under initial construction—for flood control should be halted. The millions of dollars thus saved should be spent on holding the water at its source.

Farmers, if given encouragement and sufficient financial aid, will cooperate, for it means better crops, better pasture land, as well as water in their wells.—P. H. Van Zante, Marion County, Iowa.

Folks upstream from dam sites will agree, those downstream probably won't. But it's hard to argue against the idea of controlling our flood waters while they're still raindrops.—Editor.

Too Easy On Our Supervisors?

To the Editor: I believe half of southern Iowa's road trouble is that the people are too easy with their supervisors.—Albert Smith, Winneshiek County, Iowa.

Maybe so.—Editor.

Doesn't Like Price Of Poultry

To the Editor: Why should farmers pay for a new $4,000 poultry house after paying for high-priced feed, and then have a swindler steal on their price by using a book with the pounds and prices instead of using a pencil and paper to figure it up?

The book is in the dealer's hands; he can pay you what he is a mind to, right or wrong.

Take your poultry across the river where they use a pencil and paper. Don't let the snake bite you twice.—F. F., Whiteside County, Illinois.

Which side of the river do you mean?—Editor.

Wants State To Sue Soil Robbers

To the Editor: You mention where a landlord won a suit against a tenant for losing top soil and injuring farm, and you want to know who in the name of the state should or could bring suit against an owner-operator who damages his farm.

The county attorney should. And if it's not one of his duties now, it should be made one as soon as possible.—M. K., Chickasaw County, Iowa.

But some folks might yell: "Un-American!"—Editor.

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Doctors say your kidneys contain 15 miles of tiny tubes or filters which help to purify the blood and keep you healthy. When they get tired and don't work right in the daytime, many people have to get up nights. Frequent or scanty passages with smarting and burning sometimes shows there is something wrong with your kidneys or bladder. Don't neglect this condition and lose valuable, restful sleep.

When disorder of kidney function permits poisonous matter to remain in your blood, it may also cause nagging backache, rheumatic pains, leg pains, loss of pep and energy, swelling, puffiness under the eyes, headaches and dizziness.

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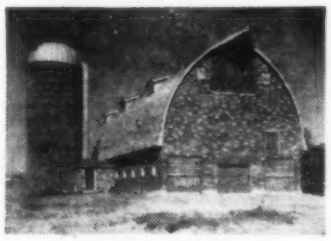

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QUIPS AND QUOTES

A LOT OF GOOD could be done for the world if nobody cared who got credit for it.—Rolfe Arrow.

IT'S STILL A NEAT trick to be able to disagree without being disagreeable.—Mason City Globe-Gazette.

A MAN SHOULD WORK eight hours and sleep eight hours, but not at the same time.—Walnut Bureau.

I ALWAYS CALLED a spade a spade until the other day I dropped one on my foot.—Guthrie Center Times.

OF ALL LABOR-SAVING gadgets ever invented for women, none has ever been so popular as a devoted man.—Walnut Bureau.

THERE ARE LOTS of boys 18 years old who just can't believe that some day they'll be just as dumb as their fathers.—Manning Monitor.

IT'S ESSENTIAL to learn from the mistakes of others. You simply don't live long enough to make 'em all yourself. — Mason City Globe-Gazette.

A LOOK IN THE MIRROR at regular intervals would be a great help in finding the one responsible for many of our troubles.—Northwood Anchor.

A STATISTICIAN says the average American family spends $200 a year for crime, not including women's hats.—Webster City Freeman-Journal.

DON'T ARGUE with a railroad train. It may be old-fashioned to stop, look and listen, but you may die young if you don't.—Estherville Daily News.

A BACHELOR friend of ours has described a shoulder-strap as a piece of ribbon worn to keep an attraction from becoming a sensation.—Algona Upper Des Moines.

ONE FRIEND assures us that two can live as cheaply as one, and he cites the fact that he and his wife live as cheaply as their daughter in college.—Algona Upper Des Moines.

IT'S SO EASY to get a divorce nowadays in some states that we read the other day where one dame wanted to get rid of her husband just because he had flat feet. The judge told her that it was no dice unless his feet visited the wrong flat.—Bremer County Independent.

WOMEN MUST BUY some of the things they wear for one of the following reasons: (1) Because her husband says she can't have it. (2) Because it will make her look thin. (3) Because it comes from Paris. (4) Because her neighbors can't afford it. (5) Because nobody else has it. (6) Because everybody else has it. (7) Because.—Bremer County Independent.

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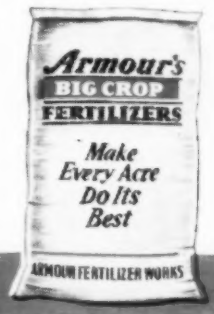

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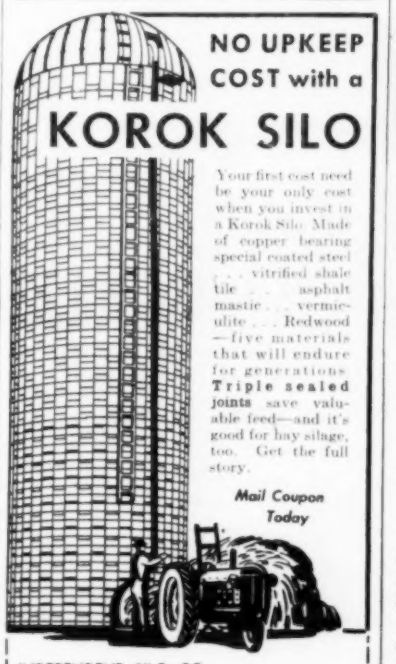

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6 bu. make 100 pounds pork. Corn is worth twice as much—or ..... $2.50 PER BU.

You get about twice as much hog per bushel of corn when you feed proper supplement. But be sure you get genuine Sargent Minral Meal—the hog supplement that gives you 3 for 1 value . . .

Many Proteins . . . Many Vitamins
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No mixing; just put Minral Meal in feeder. Let your hogs balance their own rations. Boost your corn value. Boost your profits. Ask your dealer—or write for this proven Corn-Booster Plan.

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Stock Forecast: Fair For '49

Optimistic Livestock Experts Say 1949 Will Be Good Year For Meat Producers

Men from the farm, ranch, public market, research institute and college met at the livestock conference of the 1948 Iowa Farm Bureau convention. They talked over livestock prospects for 1949 from all angles, and out of their discussion, questions and answers came a general feeling regarding livestock for the next year. Here is the way they looked at 1949 and why:

PROSPECTS for livestock producers look pretty good during most of 1949, it was generally agreed at the livestock conference of the Iowa Farm Bureau.

Two big reasons bolstered this optimistic point of view:

1. Consumer income and employment are expected to remain fairly high. As a result, demand should remain good.

2. There isn't going to be as much increase in meat production as most people think or the government would like.

Why? Farmers believe that spring pig farrowing will not be boosted the requested 17 per cent. They believe that most farmers will take the support price of $1.35 or so per bushel rather than go out on a limb by feeding more hogs than usual.

There would be some increase in spring pig farrowings, maybe 10 or 11 per cent, the assembled farmers and market experts believed. But most farmers would keep only a few extra sows, ones they could take care of without investing in extra equipment.

Even tho farmers might get $1.60 or $1.70 for the big 1948 corn crop by feeding it to extra spring pigs, they also stand a chance of getting more than $1.35 for corn by sealing it and waiting for possible price rises.

That was also the opinion of farmers in the audience. Ivan Gibbs, Wayne county, Iowa, farmer, said: "Most fellows down my way are sealing their corn. They would sooner get their $1.37 per bushel and hold onto the corn."

Cattle and sheep can't put extra meat on consumers' tables next year. Cattle numbers are down. Sheep are at an all-time low. And, before beef herds and sheep flocks can be built up again, marketings will be cut even more as breeding stocks increase.

Herb Livingston, a rancher of Newcastle, Wyo., who appeared on the program, reported that cattle numbers in the 11 western states are down a million head. And Nebraska herds are getting old.

All this seems to back up the prediction of R. G. Eggert, of the American Meat Institute at Chicago, who told the gathering that the average U. S. civilian would eat 143 pounds of meat in 1949, as compared with 146 in 1948.

Eggert, in his talk, predicted a strong demand for meat thru most of 1949. He based this forecast on such factors as military spending, exports, shortage of goods at home, consumer savings and high consumer income.

But he warned that the consumer meat dollar was getting keener competition as prices for other necessities rise.

Marketing of all classes of livestock in 1949 is expected to be under the 1948 total during the first three quarters of the year. Only in the last quarter is any increase over the 1948 figure expected. That will be when the hogs fed on the 1948 corn crop begin reaching the market. Some seasonal decline in hog prices may be expected then, Eggert said.

Speakers on the program of the livestock conference included R. S. Stephen, vice-president of the Iowa Farm Bureau; W. H. Davidson, Cedar county, state Farm Bureau livestock committee; Alf Baker, manager, Omaha Producers Livestock Marketing Association; Herb Livingston; R. G. Eggert; Dr. W. H. Thompson, of Iowa State College; Dr. H. U. Garrett, state veterinarian; Dean H. H. Kildee, Iowa State College, and E. Howard Hill, president, Iowa Farm Bureau.

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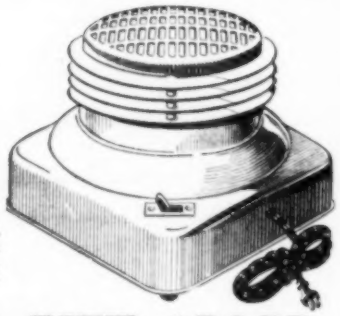

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that you are writing him through his advertisement in WALLACES' FARMER AND IOWA HOMESTEAD.

Legume, Grass Seed Short

Short legume and grass seed supplies are a good argument for getting what you need as early as you can. Here's the seed picture as reported by Iowa State College:

ALFALFA: Seed has been short for several years, and there was only half a crop in 1948. Present supply is 38 per cent below 1947, 7 per cent under five-year average.

RED CLOVER: Not quite so bad—this year's crop was a third higher than the short crop of 1947. The present supply is 18 per cent above 1947, but 10 per cent below the five-year average.

SWEET CLOVER: The 1948 seed crop was only half the 10-year average. Present supply is 17 per cent under last year and 28 per cent smaller than the average for the last 10 years.

OTHER CLOVERS: Ladino and white clover crops this year were among the highest on record, and supplies are fairly good.

ALSIKE: Fairly good supply, but extra demand may use it up in a hurry. Seed supply available for 1949 is 14 per cent more than last year and 32 per cent greater than the five-year average.

TIMOTHY: Production in 1948 was the smallest since 1934. Present supply is 61 per cent below last year and 59 per cent less than the 10-year average.

BROME: Supply of seed is 'way down. This year's production in four principal states was only 43 per cent of the 1947 crop and 61 per cent of the five-year average.

KENTUCKY BLUE GRASS seed production matched the 10-year average, but was only half that of 1947.

RED-TOP supplies are only half as large as last year.

SUDAN is the shortest since 1934.

Sow Feed Now Makes Litter Size

"The brood sow's ration now has a big effect on the size of litter she will wean next spring."

That's what Damon Catron, Iowa State College husbandman, told members of the Western Grain and Feed Association.

Catron also told the feed men that they "often pay too much attention to the protein per cent and too little attention to the quality of the protein."

Soybean oil meal and alfalfa are easy to get and are good, said Catron. But fish solubles, fish meal and meat meal have proven value when used with vegetable proteins—they add vitamins and protein quality.

Catron pointed to brood sow experiments to back up his argument that "simple mineral mixtures no longer are adequate." Sows getting a simple mixture during gestation weaned 6.3 pigs per sow. Addition of small quantities of trace minerals (iron, cobalt, copper, etc.) boosted the number to 7. A double dose of trade minerals raised litter size to 8.7. With further increases, litter size went down.

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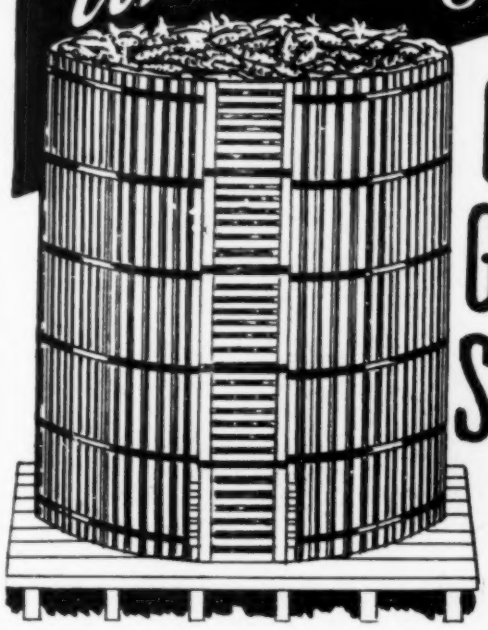

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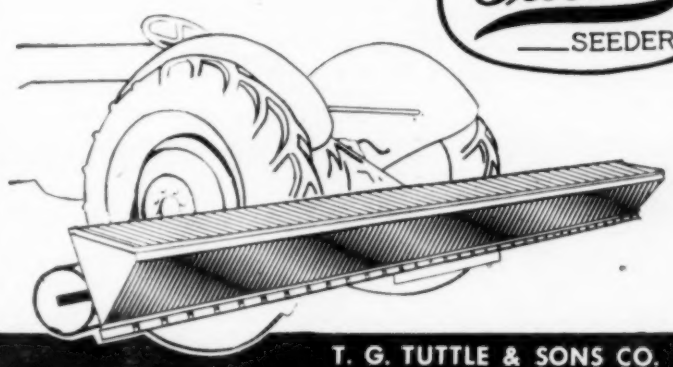

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Homemaking Department

Edited by **ZOE MURPHY**

Wreath making was in the living-room of the Bedard home, in Eagle township, Black Hawk county, Iowa. From left to right, Mrs. C. M. Lichty, Mrs. Lester Parris, Mrs. Will Putney and Mrs. Jack Philip.

A Pre-Christmas Party

ONE December day five years ago, Mrs. Leo F. Bedard and Mrs. John Herath, farm women of Black Hawk county, Iowa, were making Christmas cookies together. As the day passed, they realized they were carrying out a real holiday spirit in working together while they visited. So they decided to share their fun.

Each December since, Mrs. Bedard has invited about a dozen friends to her home in Eagle township, to spend the day making Christmas cookies and wreaths and wrapping Christmas presents. The women arrive about 9 a. m. and stay until about 4:30 in the afternoon.

Mrs. Bedard sets up three centers of activity. Wreath making is in the living-room, package wrapping in the dining-room and cooky making in the kitchen.

Greenery comes from the Bedard farm, from cedar, juniper and two kinds of pine. She also has berries, gilt cones and other materials on the two tables set up for arrangement of the wreaths.

"We try to complete everything we start if we possibly can. My house is already cluttered with this activity," Mrs. Bedard laughingly explained, "so there's no need to take a half-made wreath home and bring confusion to another household."

In the dining-room, the guests find all kinds of paper and ribbons. "They usually bring special things, too, and the packages which result are most unusual.

"I like plain wrapping paper for tailored packages for men. And we use lots of wallpaper. It offers many possibilities. Cut-outs from construction paper add an artistic value.

"Sometimes we get patterns from transfer books, or we use cartoons for decoration. Crayolas are handy here, and frequently the guests draw their own designs on the packages."

Mrs. Bedard likes wallpaper. And the lilac pattern she uses in the large, cheerful kitchen of her home is stunning. It is a perfect setting for the cooky making.

Guests bring their own butter, sugar and eggs, but the hostess furnishes everything else. The cookies made that day are tiny and very special. They not only look good, but they taste luscious.

For decoration, there are candied cherries—red and green. These are especially adaptable for making tiny Christmas wreaths on the cookies.

The women color their own sugar, adding a drop or two of vegetable coloring to granulated sugar, working it in with a teaspoon.

Mrs. Bedard suggests combining green and orchid sugar, or green and yellow, to make a decorative effect on cookies such as "Pecan Dreams."

Silver-shots, red-hots and dried fruits are other decorations which they use. Fairly early, the women discover some are better decorators than others, and an assembly line then forms. One guest mixes and stirs, while another rolls and cuts, and still another specializes in decorating the cookies.

The groups thruout the house are small, containing only three or four, and when one activity is completed they exchange with another group.

Mrs. Bedard serves a simple one-dish meal from the dining-room buffet, and her friends eat anywhere they please. Sometimes they move some of the wreaths in the living-room and use the bridge tables set up there.

"I don't have pot-luck that day, because I don't want my guests to have to bother making a dish before they leave home. And, anyway, we would have too much to eat that way.

With the one-dish meal, I serve a green salad, rolls and coffee. It is simple and does not interfere at all with the day's activities.

This year, Mrs. Bedard explained, she will have her party early, because there is to be a wedding in the family on New Year's Day, and the Bedards will be making a trip to Seattle for that.

Charlotte, her only daughter, who has been a stewardess with one of the big air lines, is marrying a lumber broker in Seattle.

Charlotte has just returned from flying to England, France, Italy and Belgium, and serving displaced persons aboard the flight back to the United States.

The Bedards also have a son, Ralph, who lives at home and assists his father with the farming.

Among the friends who come to the Bedard party each year are: Mrs. Charlie Lusthoff, Mrs. Will Putney, Mrs. Clark Lichty, Mrs. Lester Parris, Mrs. John Herath, Mrs. O. L. Tanruther, Mrs. Clyde Bechtelheimer, Mrs. Blaine Miller, Mrs. V. M. Philip and Mrs. Harry Moon—Gladys Hearst, Black Hawk County, Iowa.

CHRISTMAS COOKY RECIPES

Many old-time recipes are included by these women who come to pack their Christmas boxes at Mrs. Bedard's. If you are interested in trying out some of them, you'll find them on the opposite page.

Xmas Cookies You'll Want To Make

Holidays Seem to Call on Homemakers For Special Recipes For Cookies and Pastries

HERE are excellent Christmas cooky recipes that are real old-timers. They are the recipes that the women in Black Hawk county, Iowa, use to fill Christmas boxes.

SPRINGERLE COOKIES

These are the famous German anise cakes, which are made with the quaint wooden mold of the springerle rolling-pin.

Separate seven eggs and beat the yolks. Add one and one-half pounds powdered sugar and mix in the beaten egg whites. Add one and one-half tablespoons butter, one and one-half teaspoons of harsthorn (baker's ammonia, which you can get at the drug store), and one tablspoon oil of anise.

Knead in as much flour as possible. Roll very thin, using springerle rolling-pin. Cut into marked squares, put on waxed paper and let dry overnight.

Bake at 325 degrees until they are not too brown. They will be a light yellow and will fluff up nicely.

PFEFFERNUSSE
(Peppernuts)

Beat well four eggs, add slowly one pound sugar, mix and add two ounces citron, two ounces almonds, grated rind of one lemon, four and one-half cups (approximately) flour, one teaspoon nutmeg, one-half teaspoon of ground cloves, one-eighth teaspoon black pepper.

Chill dough. Roll about one-half inch thick and cut with pfefferusse cutter (small, round, about an inch in diameter). Place on waxed paper and let stand overnight to dry.

Next morning, before baking, turn each cooky upside-down and put a drop of water or fruit juice on the moist spot in the bottom of the cooky. Bake at 350 degrees. The water or fruit juice tends to make the pfeffernusse "pop." Let ripen and soften, as they will be quite hard at first.

MRS. BEDARD'S FAVORITE CHRISTMAS COOKIES

Two cups molasses, one cup lard, one cup sugar. Mix and bring to a good boil and cool.

Add two eggs, beaten, rind of one lemon, one-half teaspoon cinnamon, one-half teaspoon cloves, one-half pound citron, ground, six whole cardamon seeds (rolled), one teaspoon hartshorn, one-half cup sour cream, enough flour to make a stiff dough.

Chill dough. Cut in fancy shapes. Cook at 325 degrees.

GERMAN SHORTBREAD

Cream one cup of butter until very light. Gradually blend in one-half cup of sugar. Beat until light and fluffy. Sift and measure and re-sift into foregoing mixture two cups pastry flour. Put out on a board. Knead until it cracks.

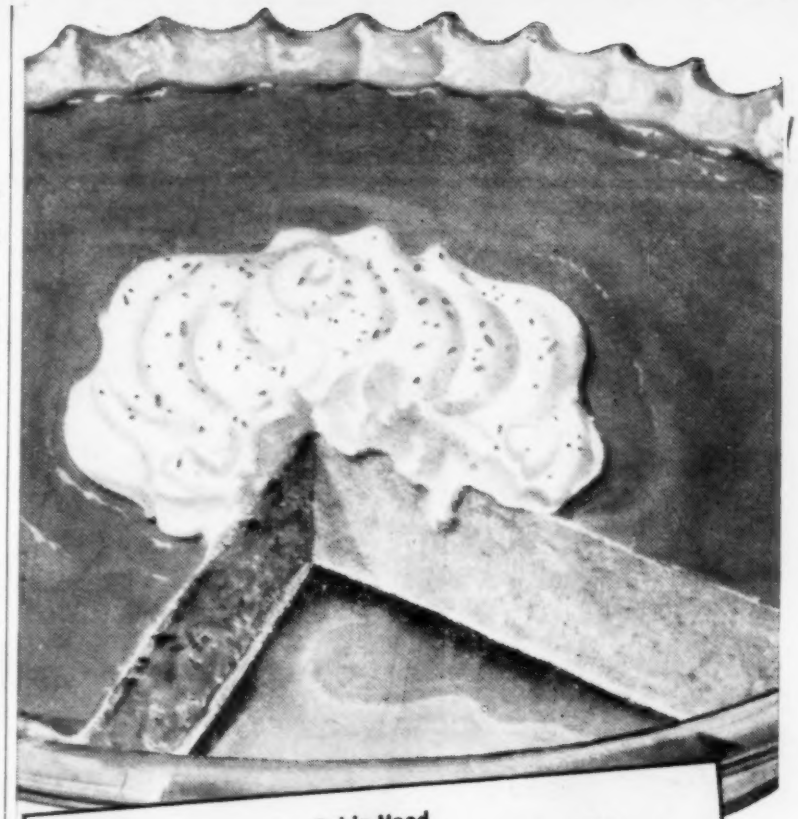
Cut in crescents. Bake in a 275-degree oven for 30 minutes.

Almonds, chopped very fine, may be added.

SOUR CREAM COOKIES

Cream one cup sugar with one-fourth cup melted shortening. Add a whole egg beaten till light and fluffy. Sift together two and a half cups of flour, a teaspoon of soda, half teaspoon salt and one-fourth cup cocoa. Add dry ingredients alternately with one cup sour cream to the first mixture. Roll out, cut, and bake them in a moderate oven.

Making Christmas cookies at the Bedard Christmas party, in Black Hawk county, Iowa. Left to right: Mrs. Blaine Miller, Mrs. Clark Lichty, and Mrs. Leo Bedard, the hostess.



Robin Hood

Old Fashioned Pumpkin Pie

½ tsp. salt
1¼ cups sifted ROBIN HOOD ENRICHED FLOUR
7 tbsp. shortening
4 tbsp. ice water (about)

Recipe by Rita Martin

SIFT—flour and salt into a mixing bowl.
ADD—half the shortening and blend until fine as meal.
ADD—second half of shortening and blend until the size of large peas.
ADD—ice water and mix into dough.
ROLL—on lightly floured board, then place in 9-inch pie pan.
FLUTE—edges, then fill with Pumpkin Filling.

PUMPKIN FILLING
1½ cups cooked pumpkin
1 cup brown sugar
½ tsp. salt
1 tsp. cinnamon
1 tsp. ginger
¼ tsp. allspice
3 eggs, slightly beaten
1½ cups rich milk, scalded

MIX—pumpkin, sugar, salt and spices together.
ADD—slightly beaten eggs and milk.
POUR—mixture in unbaked 9-inch shell.
BAKE—in hot oven, 425°, for 10 minutes; reduce heat to 375°, and continue to bake for 30 to 35 minutes or until a knife inserted comes out clean.

SUGGESTED TOPPINGS—whipped cream flavored with spice or preserved ginger, cream cheese mixed with orange rind, or spread honey over the top of pie while still warm.

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—says Mrs. Howard E. Harriman Bangor, Maine

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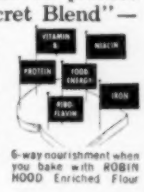

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Suggestions For Christmas Gifts

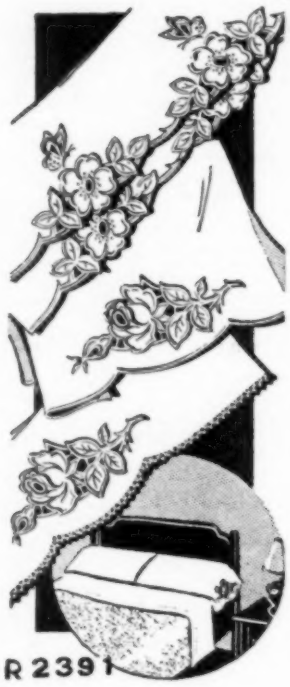
No. R-2763 — Compact and eye-glass cases to work in simple stitches, and billfold decorated with birds, make smart accessories to have or to give. Step-by-step instructions and charts for all pieces shown.

No. R-2604—Embroider this panel in shades of blue, rose and yellow on a cream background. Finished picture is about 10x14 inches. Hot-iron transfer and complete embroidery instructions.

No. R-2610 — Hairpin lace-making delights novices and experienced needleworkers as well. Step-by-step instructions for lace making and directions for the three edgings illustrated.

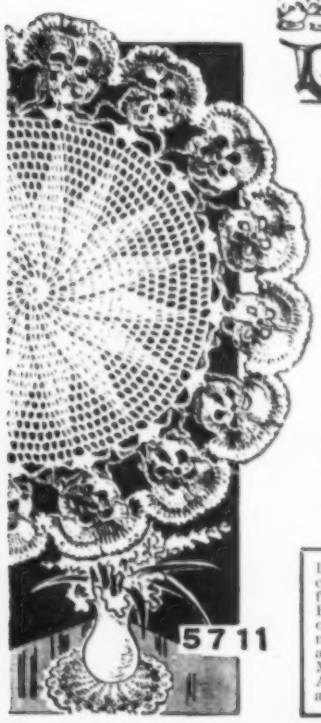
No. 5344 — Handsome chairs deserve handsome protectors. Make lovely bluebirds and soft-shaded roses in cross-stitch to preserve your newest chair or hide worn spots on your oldest. Hot-iron transfer for three pieces, color chart and stitch illustration.

No. 5901—Cover a prosaic tissue box with delicate Irish roses and crochet a demure little lady to guard a powder or trinket box. Charming boudoir accessories, easily, quickly and inexpensively made.



No. R-2391 — Add elegance to guest towels or pillowcases with graceful cut-work designs. A lovely rose and leaf motif is simple needlework —the most important stitch is your old friend, the buttonhole. Hot-iron transfer for four designs.

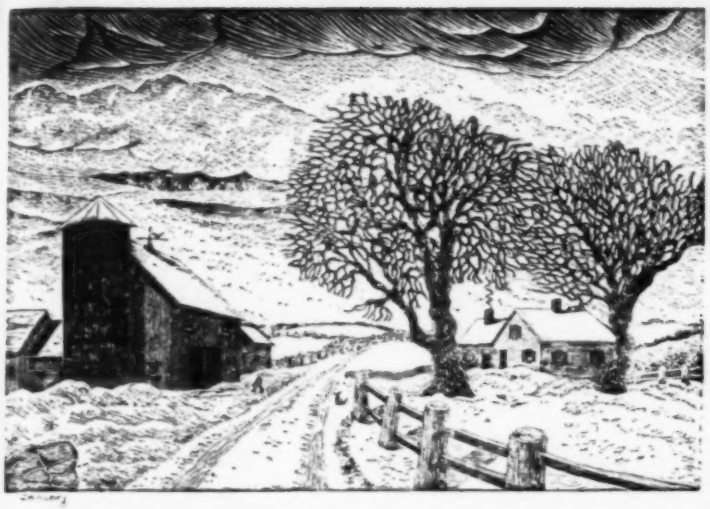
No. 5711 — Charming pansies, measuring one and one-half inches in diameter are crocheted in variegated thread and give a spring-like appearance to any table. Complete crocheting instructions.



No. R-2715—Beautiful morning-glories embroidered or appliqued on a simple apron can turn it into a party tie-on. Lovely to perk up a house wardrobe. Cutting chart for two styles.

No. R-2753 — Snug-fitting hood to frame rosy cheeks of a snow-baby. Ideal for girls of three to eight years. Complete crocheting instructions.

Designs are 20c each, in coin or stamps (coin preferred). The New FASHION Book is 25c per copy. Send orders to Pattern Department of Wallaces' Farmer and Iowa Homestead, Des Moines, Iowa. CAUTION: Always give your name and address when you write.



COUNTRY AIR

By ELIZABETH C. WHERRY

WHEN Louis Bromfield described the agony of his land in 1947, he called it the "Bad Year." Floods prevented planting, destroyed crops, swept away the fences, washed the soil away, and left his acres soggy and sour. If he had written his book in Iowa, the chapter of 1947 would have borne the same name.

* * *

But what if he had lived in Iowa and written about the year 1948? That chapter of the land would have been the "Good Year."

* * *

One reads a little now and then about some spots being a little short on hay, but, remembering the acres of alfalfa and clover of June, it is hard for me to visualize any shortage.

* * *

"What does this prove about polls?" we asked in election post-mortems. Viewing our corn crop, we ask, "What does this prove about breathless, humid July nights and a corn crop?" There were almost none such.

* * *

There were a few terrific days in August, some hot and humid, some hot and dry; but the corn was past the pollination crisis. Besides, everybody knew even then that a corn crop can take a certain amount of beating and still be good.

* * *

During the peak of the corn harvest, my brother, who has lived in Texas for 41 years, rode with me diagonally across the state. For all of the 800 miles we rode, his eyes raked the landscape in wonder and admiration.

* * *

I declared that he could turn his head like an owl—in a complete circle, without taking time out to turn it back.

* * *

The barns, the corn cribs — so many new ones with towering elevator shafts, the freshly painted houses, the electric light wires, the barnyard fences of white boards, all wrote a tremendous story of his native state for him.

* * *

I indicated as best I could just what those improvements cost, but he could only point to the great heaps of corn, the fields dotted with pigs and cattle, the big school buses, the new cars, and the tidy Main Streets of the towns thru which we passed.

* * *

"There are no spectacular fortunes to be made in Iowa," he admitted. "Not like those made by cattle barons or oil kings of Texas. But these are comparatively few. In Iowa everyone can be comfortable."

* * *

Even under cloudy skies, the unpicked fields seemed to glow with sun-tanned warmth as they spread themselves in a herring-bone pattern over the acres of Iowa.

* * *

As a light, flashing, makes me turn my head, so was my eye caught by spilled-over piles of gold in barnyards and the overflow pouring out of barn and corn crib driveways.

* * *

Thousands of pigs gleaning in the corn fields were innocent of the early slaughter they would meet because of the vast abundance of feed. Feeder cattle worried the broken stalks with arrogance. There might be corn a-plenty, but King Steer was prominent for his high-priced scarcity.

* * *

Somebody or some organization should have made a documentary movie of Iowa in 1948. A movie of the corn fields from earliest days of disking winter-tattered debris to the dramatic days of harvesting.

* * *

A technicolor film showing gaudy Gargantuan machines, overalled men and boys, and pens and pastures full of pigs, would be a rich treasure in the state's history.

* * *

Vistas of the neighbors' rich crops would meet the farm wife's eye. Strangely enough, windows of a farmhouse set at the front of a farm generally look out upon a neighbor's fields across the road.

* * *

Atom bombs, war in China, Moscow, Berlin, politics, strikes, income tax—all seem a little remote as we stumble about corn-filled barnyards and plan once more for peace and Christmas.

They Gave ME the Credit for FOLGER'S SPECIAL GOODNESS!

Of course it made good listening, when they said my coffee was the best they ever tasted! But that was nothing to the thanks I got when I told them they could make coffee just like mine—simply by switching to Mountain Grown Folger's!

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It's been said that Folger's is the coffee so *good* it just makes you feel like grinning all over! There's no putting into words the complete satisfaction a cup of Folger's can give! The rich, vigorous flavor and the exciting, winey tang of this special kind of coffee are beyond compare. Yes—you can measure the difference in the Folger Flavor by the extra pleasure it gives. To enjoy a new high in coffee drinking pleasure try real Mountain Grown Folger's Coffee.

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MOUNTAIN GROWN - So Extra Rich in Flavor
You are urged to *TRY USING 1/4 LESS*
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THERE'S A MOUNTAIN OF FLAVOR IN EVERY SPOONFUL!

Christmas Presents For Everybody

There Are Things For Everybody, From Baby To Grandma, in the Local Appliance Store

MOTHER and I went to the county-seat the other day. We had to sign up for the bean loan at the AAA office. Then, first thing I knew, we were right in the middle of an electric appliance store.

In self-protection, I told the clerk we were just looking around. But there was a tell-tale gleam in Mother's eyes. She was fairly drooling over all those white and shiny objects with cords attached (and price tags, too).

Then she began dropping hints about this and that. Christmas was coming, and she knew it—and she knew I knew it, too. And she figured, with all that money from the bean loan in my pocket, that I'd probably relax and spend some on presents for the family.

We just got hooked up to REA last year, so we aren't too well supplied with gadgets yet.

Now that 80 out of every 100 rural homes in Iowa are on high lines, these appliance stores are extra popular with country folks.

You can find things there fit for everyone from Baby Sis to Grandma. You could pretty near do all your Christmas shopping at the appliance and hardware stores. Complaint is everywhere that supplies are getting tight again. But stores are all well stocked for the Christmas buying.

For Grandma, we decided to get a foot warmer. It's a miniature electric blanket. Gives a gentle warmth at the foot of the bed. Nice for folks with poor circulation.

Along the same line, they had heating pads, electric space heaters with built-in fans, and electric blankets with single or double heat controls.

Double control gives a chance for the person on each side to set his half to suit himself. I don't know how they'd manage if they slept crosswise.

My niece has a baby boy, so we decided to get a food warmer for him. It's like an ordinary baby's plate, with a heat element underneath to keep the food warm. I could use such a thing at times, when I'm called to the door on business right after I begin to eat.

There's a trouble lamp on the market which attaches to a car the same way. One side has a red light that may be set out by the road as a warning. Mother said she'd buy it for me.

I looked over the latest models of electric shavers—one to four shaving heads. Most of them now channel the hairs into the cutting grooves. That way you can shave your beard easily, even if it is several days old.

Mother took a fancy to a four-quart electric casserole. That was her hint No. 1. It had a lid like a baking dish and was insulated, so you could keep food warm in it for potluck suppers.

You could either cook food in the seamless pan itself or set a small pie in it to bake. Current consumption is only 500 watts, so it is all right for any service outlet. It has a variable heat control.

A refrigerator makes a fine gift. Wilma Wilson, who lives on a farm in Webster county, Iowa, is enthusiastic about their new one.

I like popcorn on Sunday nights, so my choice for Mother would be one of those electric poppers. One had a glass lid, so you could see it pop. After all, that's half the fun of popping corn. It would shut off automatically before the corn was burned.

There was a cheaper one—a pan with a crank on top, fitted for a small electric plate. One might put the hot plate to other uses, too. In either, the pan had a seamless bottom, so would be easy to clean.

A waffle iron was Mother's hint

Gift Suggestions at Appliance Store

MOTHER:
- Pin-Up Lamp
- Clocks
- Electric Timer
- Toaster
- Electric Casserole
- Waffle Irons
- Hair Drier

DAD:
- Electric Shaver
- Trouble Lamp
- Reading Lamp
- Electric Blanket

CHILDREN:
- Electric Train
- Electric Shears
- Flashlight
- Record Player

THE FAMILY:
- Corn Popper
- Floor Lamps
- Door Chimes
- Portable Radio
- Heaters
- Roasters
- Record Player

Carol is still a little young to feel that the new electric dishwasher is a wonderful gift. But she'll like it better in a few years. Carol is the daughter of Mr. and Mrs. Robert Fox, of Dallas county, Iowa.

No. 2. The fanciest one was a round turnover affair, mounted on a stand and heated by a central element, which gives efficient utilization of heat. A full-sized waffle could be cooked on either side.

One thing's sure—it won't be hard to find a present for Mother. Nearly everything at the appliance store seems to be aimed toward the homemaker.

Those factory fellows are pretty smart. They know that most of the consumer goods are bought by or for women.

For those without a hot water system, those electric water heaters would come in handy. All they are is an electric heating element on the end of a rubber cord. Drop one in a pail of water, then plug it in. It must be in water before connecting, or the coil will burn out. No danger from shock, they claim.

Women generally like to pick out an electric iron to suit their own fancy. But for the friend whose job takes her around a lot, we thought a travel iron, with a folding handle, would be a good choice. It works for pressing and emergency laundering, and the cost is only five or six dollars.

For the newly-wed who lives in a trailer house, a hand vacuum would be nice. You can get one for $25 or less. One make has an adapter which, for $6 more, will convert it into an upright for doing floors.

But, if you don't want to go too high on your purchases, you can find gadgets anywhere from two dollars up. There's an electric egg cooker that will boil four at a time, or poach one.

Electric clocks are not high-priced. Some have a timer attachment to ring when a pie is to come out of the oven, or when hubby has asked you to turn off the water at the tank.

Maybe you'll all want to go together on a Christmas gift for the family. All get the benefit, in many cases, even if Mother does have the care of it.

Like the Merrill Clark family. They were all thrilled over their new electric toaster. It was kind of a game for Betty Jean and Karen to sit at the breakfast table and watch for the toast to pop up. (Maybe it helped to get them down to breakfast on time, too.)

A reading lamp could be a gift for the family. Along with pin-up lamps for sister or brother, to use in their rooms. There's a combination pin-up and table lamp on the market that really looks very handy, and the cost is moderate.

There was a neat portable radio at from $30 to $40. Plug it in, and you have a regular little four-tube electric. Unplug it, and it still will operate on batteries. Handy for taking along on picnics or when a Boy Scout bunch goes camping.

But what our house needs most right now is a set of electric door chimes. One ring means the back door and two rings the front. It's hard to hear folks rap at our porch doors. They might give up and leave before Mother discovered them there.

Good way to get rid of agents! But, then, you never know — it might be someone wanting to buy some livestock.—W. S. C.

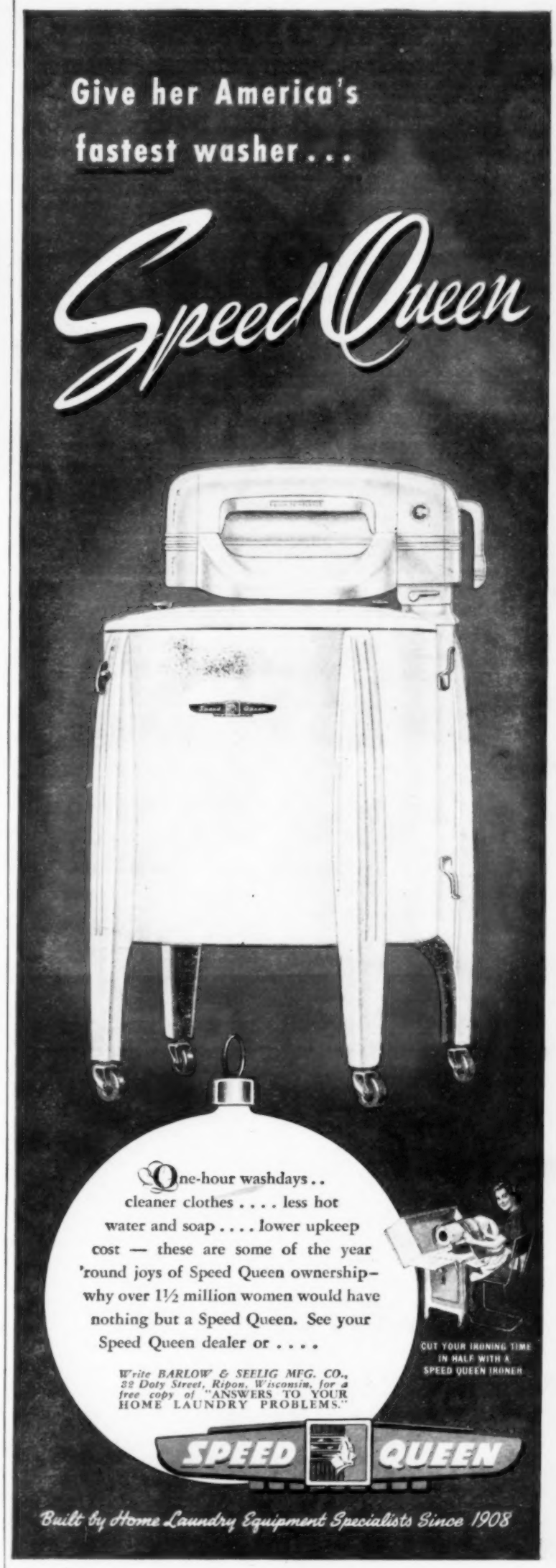
Christmas Cards Are Reminders

WE WON'T tell you how many shopping days until Christmas. We will remind you, tho, that it's none too early to begin addressing Christmas cards.

Christmas is a time when we express our gratitude. We are grateful for the great gift of God's love. That's the reason we celebrate Christmas.

We are grateful, too, for our many friends who have shown us their love and kindness thru the year. How can we express the way we feel about them?

Christmas cards will carry that thought to friends far and near. They will cheer lonely hearts and revive happy memories. With a sincere, personal message added, they will mean as much to some of our friends as the most expensive gifts we could buy.



COOKERY CORNER

INDIVIDUAL FIG PUDDINGS

1 pound figs, chopped
1 cup suet, chopped
1 pint bread crumbs
¼ cup light brown sugar
3 eggs, beaten
1 teaspoon cinnamon
1 teaspoon nutmeg
¼ cup grape juice

Combine the ingredients. Fill greased custard cups two-thirds full and cover tightly with waxed paper held by rubber bands. Set in a pan of hot water and steam in a 350-degree oven for two hours. Serve with the following orange sauce:

Cream one-third cup butter, beat in gradually one cup confectioner's sugar until smooth and fluffy. Add two tablespoons orange juice and two tablespoons grated orange rind, stirring in gradually. Chill.

SAND TARTS

1 cup brown sugar
½ cup shortening
1 egg, beaten
1 teaspoon vanilla
¼ teaspoon salt
1½ cups flour
2 teaspoons baking powder
Cinnamon and sugar

Cream shortening and sugar. Blend in the egg, saving out a little of the white, and add the vanilla. Add flour, sifted with the baking powder and salt. Mix well. Chill. Roll thin, cut, brush with slightly beaten egg white, sprinkle with cinnamon and sugar (one tablespoon sugar to one-fourth teaspoon cinnamon). Bake in a 350-degree oven for 10 minutes. Makes 60 small cookies. (To hang on the Christmas tree, make a hole in each cooky before baking.)

EASY FRUIT CAKE

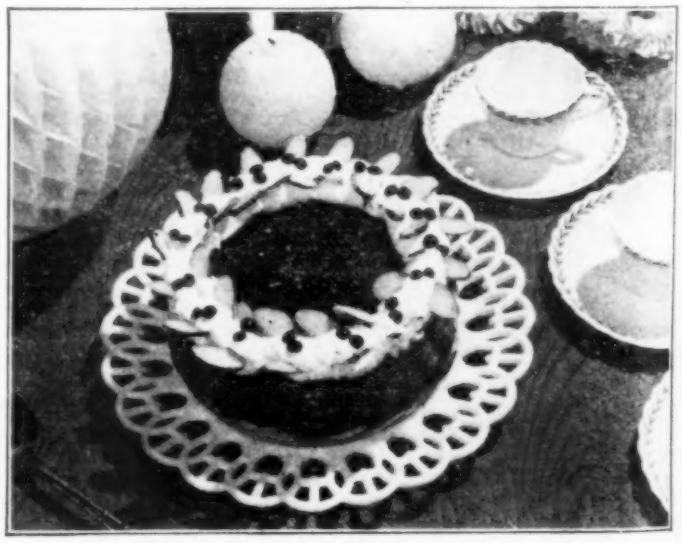
1 cup butter
1 cup molasses
2 cups sugar
4 cups flour
½ cup milk
1½ teaspoons baking powder
3 eggs
1 tablespoon cinnamon
1 pound figs, chopped
½ pound nutmeats, chopped
1 pound currants
2 pounds raisins
1 pound citron, chopped
¼ pound candied cherries
2 teaspoons vanilla

Combine ingredients thoroly. Place in pans lined with heavy waxed paper. Steam three hours, then bake two hours in a 250-degree oven. Makes nine and a half pounds of fruit cake.

CHRISTMAS YUMMIES

½ cup shortening
1 cup sugar
2 eggs, well beaten
1 teaspoon vanilla
1½ cups cake flour, sifted
½ teaspoon salt
1 teaspoon baking powder

Mix ingredients well. Place in a 9x13-inch pan. Top with the following mixture: One egg white, one cup brown sugar and one-half cup nutmeats, chopped. Bake in 375-degree oven for 25 minutes. Cut into squares.



Fruit Cake Without Flour

1 cup seedless raisins
1 cup dried figs
1 cup pitted dates
1 cup dried apricots
2 cups Brazil nuts
1½ tablespoons grated lemon rind
3 tablespoons grated orange rind
½ cup brown sugar, firmly packed
1 teaspoon nutmeg
1 teaspoon cinnamon
¼ teaspoon allspice
¼ teaspoon ginger
3 tablespoons lemon juice
2 tablespoons orange juice

Put raisins, figs, dates, apricots and Brazil nuts thru food-chopper, using the medium blade. Place in large mixing bowl and add remaining ingredients. Knead mixture with the hands until thoroly blended. Turn mixture into six-inch spring-form pan that has been lined with heavy waxed paper. Cover top with waxed paper. Place in ice-box for 24 hours before serving. If cake becomes dry, pour one tablespoon of orange juice over the top. The flavor improves with storage. The cake may be served with whipped cream if desired. Yield, 16 servings.

Quackie captures a child's interest. Meals have more appeal when Quackie keeps baby's food warm and tasty. Hot water compartment, under divided food tray, is filled through Quackie removable head. Quackie is 9½ inches long, cream colored, with either pink or blue side feathers. State your color preference. Entire body made of highly-glossed, easy-to-clean china. Here is a lovable, practical baby gift. Order immediately for Christmas. $2.98

MILFORD CERAMICS
MILFORD, NEBRASKA

RHEUMATISM
1909 RELIEVED 1948

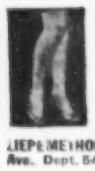
39 years' experience in the treatment of arthritis, neuritis, sciatica, lumbago and gout, Hypertension (high blood pressure), Hypotension (low blood pressure), Dermatitis (Eczema and Psoriasis). Also Obesity. Separate Departments for men and women. Two Resident Physicians. On U. S. Highway 212. Tel. Shakopee 123.

Write for Booklet C.

MUDCURA SANITARIUM, Shakopee, Minn.

Relieve Misery of ITCH

Relieve itching caused by eczema, athlete's foot, pimples—other itching troubles. Use cooling, medicated D.D.D. Prescription. Greaseless, stainless. Quiets itching fast. 35c trial bottle proves it—or money back. Ask your druggist for D.D.D. Prescription.



LEG SUFFERERS

Why continue to suffer without attempting to do something? Write today for New Booklet — "THE LIEPE METHODS FOR HOME USE." It tells about Varicose Ulcers and Open Leg Sores. Liepe Methods used while you walk. More than 40 years of success. Praised and endorsed by multitudes.

LIEPE METHODS, 3284 N. Green Bay Ave., Dept. 54-N, Milwaukee, Wis.

FREE BOOKLET

Photo Finishing. This ad and 25c gets you 10 over-size reprints or 5 4x6 enlargements. JUMBO PRINTERS, Lake Geneva 4, Wisconsin

This Home-Mixed Cough Syrup is Most Effective

Easily Mixed. Needs No Cooking.

Cough medicines usually contain a large quantity of plain syrup—a good ingredient, but one which you can easily make at home. Take 2 cups of granulated sugar and 1 cup of water, and stir a few moments until dissolved. No cooking! No trouble at all. Or you can use corn syrup or liquid honey, instead of sugar syrup.

Then get from your druggist 2½ ounces of Pinex, pour it into a pint bottle, and fill up with your syrup. This gives you a full pint of wonderful medicine for coughs due to colds. It makes a real saving because it gives you about four times as much for your money. It lasts a long time, never spoils, and children love it.

This is actually a surprisingly effective, quick-acting cough medicine. Swiftly, you feel it taking hold. It loosens the phlegm, soothes the irritated membranes and makes breathing easy. You've never seen anything better for quick and pleasing results.

Pinex is a special compound of proven ingredients, in concentrated form, a most reliable, soothing agent for throat and bronchial irritations. Money refunded if it doesn't please you in every way.

USE AND GIVE PERSONALIZED STATIONERY

Your name and address neatly printed in blue on a crisp white rag-content paper correct for men and women.
150 sheets—6x6⅞" 100 envelopes—6¼x3⅝" $1.75 postpaid
DON'T DELAY—ORDER NOW—IDEAL FOR GIFTS
Please print name and address carefully
JENSENS'
600 South Michigan Ave., Dept. A, Chicago 5, Ill.

PROFESSIONAL 7" x 5" ENLARGEMENT 10c

Sensational introductory offer! Send snapshot or negative, this ad, and 10c. We'll send you a beautiful 7" x 5" enlargement! SPECIAL—BEAUTIFUL PHOTO CHRISTMAS CARDS! Six for 60c; 12 for $1.00; 25 for $1.50; 50 for $2.50! Or for individual sample with FREE matching envelope, send negative with 5c today. Kodak rolls developed with 16 guaranteed deckle-edge fade-proof prints or 8 double-size prints, 25c! Reprints from your negatives, 16 regular-size or 8 DOUBLE-SIZE, 25c! Or, details and film mailers FREE.

AMERICAN STUDIOS
Dept. 376 LaCrosse, Wisconsin

18 CHRISTMAS CARDS

and envelopes $1.00. 60—$3.00, send negative. Three prints each 8 exposure roll 40c. Two each 35c. One each 25c. Reprints 3c.
FRED I. EASTMAN BODE, IOWA

16 DECKLEDGE PRINTS from any Standard 8 Exposure Roll, 25c. Quick Service. Professional work. SKRUDLAND Lake Geneva, Wisconsin

White Birch, Weeping Willows, Red Maples, Black Walnuts, Lombardy Poplars, 4 ft., 50c ea. Postpaid. Folder. Order now. Willmar Nursery, Willmar, Minn.

Make Someone Happy with this PERFECT GIFT

EKCO FLINT VANADIUM KNIFE Holdster Set

Six gorgeous, super-sharp nationally advertised Flint knives in a handsome natural finished hardwood block you store in a drawer or hang on the wall. Everything you need for every cutting task, right at your fingertips. Includes knives for the table and the kitchen. Every blade of tough Flint Vanadium steel—Hi-Arc hollow ground to be sharp, keep sharp. Handles of Brazilian rosewood. For your Ekco Flint Holdster Set, send check or money order today for $16.95 to address below. Sorry, no C.O.D.'s. Postage prepaid.

$16.95

Holdster Set Includes: 3" paring knife, 8" steak slicer; 9" roast slicer, 5" utility knife, 3½" ham slicer, 8" French cook's knife.

Beautifully Gift Boxed

GRAND PRODUCTS COMPANY
Dept. WF-12 • 451 Bridge Street • Grand Rapids, Mich.

Fresh Fish

The best clear water—good eating frozen varieties—guaranteed quality. Every fish has passed a rigid inspection.

HOLIDAY SPECIAL

All boneless fish steaks in 1 lb. cello paper. 10 lbs. pike, 10 lbs. white fish, 10 lbs. Cod, 10 lbs. Rose Fish, 10 lbs. Mullet, 10 lbs. Northern Pike—all 60 lbs. for $16.00.
A wonderful assortment for your home freezer.

SELECTED PACIFIC OCEAN VARIETIES ALL HEADLESS—GUTTED

Ready to use—delicious for frying
25 lbs. Alaska Halibut, 25 lbs. Alaska Cod, 25 lbs. Alaska Salmon, 25 lbs. Alaska Flounder. 100 lb. box $32.50 or one-half order $17.00.

NORTHERN LAKES VARIETIES

40 lbs. Cod, 6 to 10 lb. average fat Buffalo $11.00.
1 50 lb. boxes Sealed, Gutted, Large Lake Perch, 50 lbs. fish $12.00.
1 20 lb. boxes Sealed, Small Walleyes, 20 lbs. $10.00.
1 25 lb. box Lake Michigan Silver Smelt $3.00.
1 25 lb. box sealed, Gutted, Headless Pike $2.75.
10 lbs. Suckers $3.50.
25 lbs. large Carp $2.00.
25 lbs. Silver Herring $2.50.
2 10 lb. boxes, ready to fry, guaranteed lake run mate, famous Bullheads, 20 lbs. $14.00.
22 lb. box Genuine Brook Trout, one-half lb., one per box $17.00.
25 lb. box large Eels, 2 to 4 lb. size, per box $7.00.
You may also order Oven-Fresh, ready-to-eat smoked fish by parcel post at 30c per each. 10 lbs. postage.
10 lb. box Smoked Buffalo Chunk $4.00. 5 lb. box Red Salmon $3.25. 10 lb. box Bluefin Herring $2.25. 10 lb. box Chunk White Fish $4.00. 10 lb. box CHUNK Eels $4.50.
Order as much as you like of these varieties. Frozen fish must be ordered by express, and when ordering smoked and frozen varieties together we will ship all by express. All fish packed to arrive in good condition. Orders shipped promptly.

LESTER FISHER FISH CO., Marinette, Wisc.

Appetizing FISH OFFERS

Delicious Lake Superior Trout
50 lbs. of fish per box $27.00
Waltzyed Pike (The finest money can buy), Dressed
50 lbs. of fish per box $18.75
Great Northern Pike (Pickerel) Dressed and Headless
50 lbs. of fish per box $12.75
Canadian Silver Bass (Dressed and Headless)
50 lbs. of fish per box $12.75
Seaned, Dressed and Headless Bluefin Herring, Ready for the pan (Pan fries)
50 lbs. of fish $10.50

Write for our Catalogue and Price List. We have many more varieties of Frozen, Smoked, Salted and Spiced fish. Get this complete catalogue free. We also have a silverware coupon and beautiful calendar proposition to offer. Write today.

SIVERTSON BROS. FISHERIES
362 Lake Ave. South
DULUTH 2, MINN.

Long Range WEATHER FORECASTS

Will 1949 be wet, dry, hot, cold, have good crops or drought?

You'll find the answers in Moldenhauer's 1949 long range *Weather and Crop Outlook*. Covers your area up to 12 months in advance.

SUBSCRIBE NOW—ONLY $3.00 PER YEAR
Large circulation and years of experience permit dependable forecasts at low cost. Only $3.00 brings you complete service, including annual and monthly editions and precipitation maps for all of 1949.

WRITE for free literature and illustrative folder.

OSCAR L. MOLDENHAUER
P. O. Box 156-B Moline, Illinois

What's New In Toys?

TOYS are good news this year, not only to Santa Claus and to the children, but to parents aunts and uncles.

While there are no particularly new and startling innovations, nor are they much cheaper, they are excellently made and of much better materials than has been the case for many years.

If you just want toys for the children to look at, to drag around or to cuddle, there is the usual number of fascinating dogs, carts and dolls, well put together and well dressed.

Most gift-giving adults like to give presents that allow the child to do things with them, to take them apart, put them together again, to manipulate them without destroying them.

Nests of boxes that children love to fit together and build with are made of strong cardboard to withstand hard use.

Fitting forms into holes run the range from wagons with posts, cubes and triangles in them to a sturdy mail-box with openings to receive various shaped blocks.

There are trucks and trailers that come apart and can be put back together easily.

A funny little push toy is a grown-up rattle, a carpet sweeper or a lawn mower, according to the child's imagination.

There are primitive flat wooden trains without wheels that lock together and may be pushed all over the house. Numerous gay toys, consisting of piles of blocks, may be stacked and restacked on a dowel pin.

A new type of building toy, of big blocks in various shapes, can be doweled together to make anything from a wagon to a mill. A similar set is designed for building and rebuilding a village.

Big, easily-held wooden heads come in a net sack to string on a cord with stiff-waxed ends.

There are gay-colored toys of the old Tinker-Toy type, and all manner of notched-log building sets, as well as smoother-built and sturdier Erector sets.

To encourage the child to do things for himself, there are "stick-em" books and jig-saw puzzles in sets of firm, smooth cardboard cut in large pieces.

Two lovely sets of "floor puzzles"—each nine feet long, with colored panels on the back, make a nine-foot "Uncle Wiggly Circus. There's also a set of "Raggedy Anne" panels, and a good map of the United States in jig-saw form, too.

Farm "Lotto" furnishes a lot of fun. Stamping outfits of plastic are well made. Good, big clay modeling sets are now available.

There are toy telephones which take care of a lot of otherwise meaningless chatter.

Farm sets of tractors and other machinery are modeled on grown-up models.

Best of all is the furniture—once more sturdily built and finished smoothly. And best of all the furniture is a low stool which may easily be carried about to add the extra inches so handy for a growing child to have.

If your youngster catches cold

DO WHAT MOST MOTHERS DO TO RELIEVE DISTRESS

For wonderful soothing relief from the miseries of your child's cold, do what millions of mothers do: Rub throat, chest and back with warming, comforting Vicks VapoRub.

Instantly—the moment you rub it on—VapoRub's famous relief-bringing action starts working *2 ways at once:*

PENETRATES to upper bronchial tubes with special medicinal vapors.

STIMULATES chest and back surfaces like a good warming poultice.

And . . . this special Penetrating-Stimulating action *keeps working for hours* to soothe distress and ease discomfort *even while your little one sleeps.* Often by morning the worst miseries of the cold are gone!

Best known home remedy you can use to relieve distress of colds . . .

VICKS VAPORUB

In Any Weather...

The BUTLER Blue Belle Brings You HEALTHFUL, CAREFREE WARMTH

NO MORE FURNACE-TENDING DRUDGERY . . . NO MORE FUEL-DIRTY FLOORS INSTEAD—YOU HAVE

★ Automatic Furnace or Circulating Warm Air Heat
★ Fast Clean Cooking and Baking
★ Plenty of Hot Water
★ Automatic Refrigeration

Healthful—because you have a system that assures clean, uniform burning . . . keeps your home at a warm even temperature regardless of outside changes.

Carefree—because your Butler Blue Belle stores 100% Propane . . . instantly, automatically convertible to gas *in any weather.* You have year-round dependable service—at sub-zero temperatures and high summer temperatures.

Install your Butler Blue Belle Home Gas system, now! See your nearest Butler dealer today for complete information.

The Mark of BUTLER Better Quality

BUTLER MANUFACTURING COMPANY
Factories: Kansas City, Mo. Galesburg, Ill. Richmond, Calif. Minneapolis, Minn.

Please address all Inquiries to:
7451 East 13th Street, Kansas City 3, Mo.

Send Complete Information On The New Butler Blue Belle Home Gas System.

NAME _____
P.O. _____
R. F. D. No. _____ STATE _____

ALONG FARM LINES

Looking in the directory before placing a call helps prevent wrong numbers. If the number isn't in the directory, please ask the operator for it.

NORTHWESTERN BELL TELEPHONE COMPANY

Appealing Designs

No. 8390—Cute look-alikers—rompers for brother, puffed sleeves for sister. Sizes 6 months, 1, 2, 3 and 4 years.

No. 8392—Juniors will adore this well-styled dress. Unusual button trim and flattering keyhole neckline. Sizes 11, 12, 13, 14, 16, 18.

No. 8393—Waist-whittling peplum and diagonal blouse closing make this a flattering style for all figures. Sizes 12, 14, 16, 18, 20.

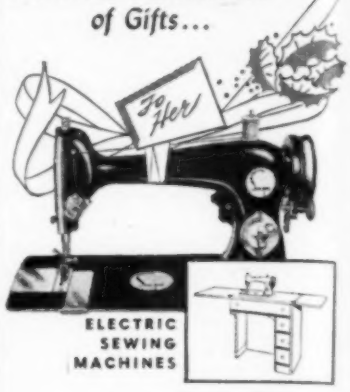
No. 8377—A classic favorite, with the new, softly-styled look that will see you thru the winter. Sizes 14 to 20, 40 to 46.

No. 8364—Easy to sew, neat tailored slip and pantie set, that goes together quickly and easily. Sizes 14, 16, 18, 20, 40, 42, 44.

Patterns are 25c each, in coin or stamps (coin preferred). The New FASHION Book is 25c. Send orders to Pattern Department, Wallaces' Farmer and Iowa Homestead. CAUTION: Always give name and address.

Sew-gem ROTARY ELECTRIC

The most remembered of Gifts...



ELECTRIC SEWING MACHINES

Sew-Gem, the most modern of electric sewing machines for the home, brings undreamed of sewing pleasures to women everywhere.

New features—found only in Sew-Gem, make sewing easy for beginners and experienced alike.

Available in Secretary Desk, Writing Desk, Occasional Table and Portable Models. See Sew-Gem at your dealer's, or write us direct.

Jellman MANUFACTURING CO.

DEPT. WF, ROCK ISLAND, ILLINOIS

Doesn't it seem more sensible?

ALL-VEGETABLE LAXATIVE

NATURE'S REMEDY (NR) TABLETS—A purely vegetable laxative to relieve constipation without the usual griping, sickening, perturbing sensations, and does not cause a rash. Try NR—you will see the difference. Uncoated or candy coated—their action is dependable, thorough, yet gentle as millions of NR's have proved. Get a 25c box and use as directed.

Nature's Remedy NR TO-NIGHT TOMORROW ALRIGHT

FUSSY STOMACH? RELIEF FOR ACID INDIGESTION, GAS AND HEARTBURN

TUMS 10¢ FOR THE TUMMY!

PIN-WORMS now can be beaten!

The miseries of Pin-Worms have been known for centuries, and millions of victims have sought a way to deal with this pest that lives inside the human body.

It is no longer necessary to suffer in silence, because a highly effective treatment for the ugly infection has now been made possible. It is based on a special, medically recognized drug principle. This officially approved drug element is the vital ingredient in P-W, the medically sound Pin-Worm tablets developed in the laboratories of Dr. D. Jayne & Son.

The small, easy-to-take P-W tablets act in a special way to remove Pin-Worms. So watch the warning signs that may mean Pin-Worms in your child or yourself—especially the aggravating rectal itch. And don't delay! Ask your druggist for JAYNE'S P-W and follow the directions.

SNAPSHOTS

Big 7x11 Photo Album FREE

Just send this ad and 10c to pay mailing. Beautiful 4-color covers, black leaves hold 250 snaps; if Magic Mount style, no glue or paper corners needed. It's fun to Magic Mount snapshots. Check preference for cover design:
DeLuxe Crown Album, Special Baby Album. If not checked, we send De Luxe Crown.
CROWN STUDIOS
St. Louis 14, Mo., U. S. A.

Get Well QUICKER From Your Cough Due to a Cold

FOLEY'S Honey & Tar Cough Compound

STREAMLINED. Built-in Kitchen Cabinets to fit any kitchen. Complete, easy to understand detailed plans and specifications showing "Professional" construction methods. All for $1.00.

THOMBERT CO.
Box 447W Newton, Iowa

Buy Bonds Now

FRESH FROZEN FISH

As Fresh As Though You Caught Them Yourself

Order a Fast Express shipment of these selected delicious "fresh from the water" fish.

Guaranteed *Skipper Sam* Brand Quality

NOW IN SEASON

Packed with dry ice to keep frozen

LAKE FISH

Packed 50 Pounds in Boxes

Walleyed Pike	Dressed, heads on	$18.00
Walleyed Pike	Dressed, headless	21.50
Lake Superior Trout	Dressed, Heads on	27.00
Northern Whitefish	Dressed, Heads on	17.00
Northern Pickerel	Dressed, headless	12.00
Bullheads	Dressed, headless, skinned	20.00
Lake Herring	Dressed, headless, sealed	10.00

OCEAN FISH

Packed 50 Pounds in Boxes

Rockfish	Dressed and Headless	$10.50
Flounders	Dressed and Headless	11.50
Ocean Pike	Dressed and Headless	11.50
Haddock	Dressed and Headless	12.50
Sablefish	Dressed and Headless	14.00
Alaska Salmon	Dressed and Headless	22.50
Chicken Halibut	Dressed and Headless	20.00
Steaked Cod	Dressed and Headless	12.50

Will pack assortments, $1.00 per box additional

SPECIAL FOR THE HOLIDAYS

Ocean-Lake Assortment Box

Rockfish—Haddock, Flounders—Walleyed Pike, Northern Pickerel — 10 lbs. each kind — $14.00

50 pounds selected, dressed and headless fish. Will pack double amount of each kind—100 lbs. $26.25

Smoked Fish . . Ready to eat

Include some of these wholesome fish goodies with your order. A "ready to eat" delicacy that you will like. Packed in cartons—5 pounds

		5 Lb. Cartons
Tullbee Whitefish	Fancy ¾ lb. fish	$2.15
Ciscoe Whitefish	Fat ¾ lb. fish	2.40
Lake Herring	Lean ¾ lb. fish	1.65
Atlantic Mackerel	Fat 1 lb. fish	2.40
Atlantic Eels	Fat 3 lb. fish	2.40
Northern Whitefish	Fancy ½ lb. chunks	2.50
Sablefish	Fat ½ lb. chunks	2.50
Salmon	Fancy red ½ lb. chunks	3.50

5% discount on 10 carton orders of Smoked Fish.

Salt Lake Herring	Pails, 20 lbs.	$5.00
Salt Fat Ocean Herring	Pails, 20 lbs.	7.00
Pickled Herring	Pails, 20 lbs.	7.00
Lute Fish	Pails, 20 lbs.	5.75

You will enjoy the many fine meals prepared from these tasty, flavorful fish that we can ship to you by Fast Express Now. . . . We will include a Cook Book, New illustrated Fish Folder and Complete Price List. . . . Free.

SAM JOHNSON & SON'S FISHERIES, Inc.

Wholesale Fishermen Since 1897

DOCK No. 5 DULUTH 2, MINNESOTA

10 XMAS TREE LIGHTS $1.00

AGAIN SCARCE THIS YEAR—ORDER NOW!

Don't be disappointed this year. Take advantage of this amazing bargain offer —10 CHRISTMAS TREE LIGHTS $1.00 Postpaid.

GUARANTEED

To Light and Last

This is new, fresh merchandise. Wonderful assortment of beautiful, brilliant colors. Fluted, cone-shaped Series Bulbs. Limited supply. To be sure of delivery before Christmas, order now. No orders filled after December 10th.

8 LIGHTS AND WIRE-$1.50
WIRE ALONE-75c
ALL ORDERS POSTPAID
Send check, cash or money order.

TELE RADIO CREATIONS, INC.

Dept. N 540 N. Michigan Ave., Chicago 11, Ill.

ORDER TODAY!

Send for this FREE BOOK on RHEUMATISM

ARTHRITIS • NEURITIS • SCIATICA

If you suffer the agonizing pains of these diseases when the usual remedies have failed, learn about a specialized system proven for treating. This marvelous treatment is completely explained in the Ball Clinic's **FREE BOOK.** *No Obligation. Write Today.* Ball Clinic, *Dept. 40,* Excelsior Springs, Mo.

PROMPT RETURN. Any 8 exposure film 25c. Two prints of each, 35c. Quality Work. **INTERSTATE PHOTO CO.,** Box 457, Minneapolis, Minn.

Buy More Bonds

I Did My Christmas Cooking Early

Farm Woman Prepares Christmas Dinner Early, Then Puts It In Her Home Freezer

THIS year, my Christmas dinner was practically all ready by Thanksgiving time. How did I do it? It's easy, if you have a home freezer.

First, you must plan the dinner. Then, at your convenience, you can prepare the food and freeze it. I really started last June, when the peas were frozen.

Peas are my family's favorite vegetable. If frozen when not too old, they come out as tender and sweet as fresh ones.

In the fall, I put up tomato juice. That will be our "starter." The juice for freezing was poured into cellophane bags. The bags were sealed with a hot iron.

In October, I prepared a large batch of candied sweet potatoes. Some were eaten then. But most were carefully packaged and put away in the home freezer.

The candied sweet potatoes I prepared in this way: Bake potatoes until done. (Or boil until partly done, and finish by baking, if you want to save time.) Peel carefully and cut into halves or quarters. (Slices at least a half-inch thick.) Dip sliced potatoes in lemon juice, roll in granulated sugar and freeze.

A few weeks ago, I cleaned a hen and prepared it for roasting—including the stuffing. I wrapped it air-tight in aluminum foil, then in locker paper, and put it in the freezer. It was labeled "For Christmas dinner."

A little later on, I made up a batch of whole wheat bread and rolls, and put away rolls enough for Christmas-time in a cellophane bag, stored in the freezer.

About this time, I also made mince pies and put them in the freezer with a label, "Do not open until December 25."

The secret of all freezer packaging is to exclude as much air as possible from the product. I like to wrap my pies in cellophane; then invert another pie plate on top and wrap again, in aluminum foil or heavy moisture and vapor proof paper.

When Thanksgiving was over, I made and stored some cranberry ice. It goes nicely with the main course. All the family raved over it. Here's the recipe:

Four cups cranberries cooked in three cups water until tender. Strain. Add one and one-half cups sugar. One envelope of gelatin, soaked in one-fourth cup cold water, is added to the hot mixture. Then the juice from one and one-half lemons, with enough orange juice to make one cup. Cool.

Freeze in refrigerator until almost firm. Put two unbeaten egg whites in a large bowl. Add the nearly frozen "ice" and beat until light and fluffy. Finish freezing and store.

All kinds of ice creams, sherbets and ices are best if not held in the freezer more than a month.

A stuffed chicken may be kept in frozen storage six months, if sage is not used in the dressing. If sage is used, don't keep it over three months, for then the sage tends to permeate the meat.

The candied sweet potatoes and unbaked mince pies will keep at least four months. The limit for baked rolls is about six months.

There, now—stored away in the home freezer—our Christmas dinner is nearly ready. What is left to do yet?

I must make out a time schedule, so as to know just when everything is to come out of the freezer and be put on to cook.

The chicken is to be put into the oven in a frozen state. That means I must allow about 15 minutes beyond usual roasting time for every pound of fowl. Frozen pie will need at least an hour in the oven.

Tomato juice and peas can be set out early and allowed to thaw at room temperature. Then it will take only a few minutes to heat up the peas.

The frozen rolls can be left in the bag and warmed in a moderate oven for 30 minutes.

The day before Christmas, the relishes must be fixed and stored in the refrigerator. Christmas Day, I'll cook white potatoes quickly in the pressure cooker. It's quite simple, isn't it?

We want to have extra goodies on hand for Christmas week. So I have baked a lot of cookies and put them in the freezer—also unbaked cooky dough. Several quarts of homemade ice cream are ready. It's always in demand.—Mrs. W. C., Hardin County, Iowa.

FROZEN FISH

Standard Oysters—Packed in Pints	65c Pt.
Select Oysters—Packed in Pints	75c Pt.
Headless and dressed Baby Halibut	30c lb.
Headless and dressed Sablefish	27c lb.
Headless and dressed Salmon	40c lb.
Skinned and Dressed Jumbo Bullheads	35c lb.
Lake Erie Perch	24c lb.
Sea Perch Fillets—Packed 10 lb. cartons	28c lb.
Ocean Fillets—Packed 10 lb. cartons	25c lb.
Lake Smelt—Packed 10 lb. cartons	24c lb.

SMOKED FISH

Smoked Blue Fin Herring—Packed 5 lb. cartons	35c lb.
Smoked Chub—Packed 5 lb. cartons	55c lb.
Smoked Sablefish—Packed 5 lb. cartons	60c lb.

FROZEN FRUIT

Northwest Sliced Strawberries—Packed 6½ lb. tins	38c lb.
Northwest Red Raspberries—Packed 10 lb. tins	33c lb.

We have a complete line of frozen fruits and vegetables and will give you prices on request. All stock guaranteed. Shipments made via express. Mail money order or check with order. All shipments packed with dry ice, if necessary, at no cost to you. Above prices F.O.B. Chicago, Ill. You may order any quantity you desire of each.

LAKESIDE FISH & OYSTER CO., 657 Fulton St., Chicago 6, Ill.

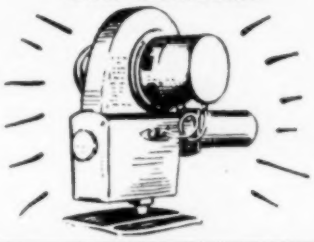
"BE HEATING WISE COLONIALIZE"

WANT MORE COMFORT with LESS FUEL OIL?

WANT TO BURN ALL GRADES DOMESTIC FUEL OIL?

REPLACE WASTEFUL OIL BURNERS

WITH THE NEW GREEN COLONIAL *Econo-Miser* OIL BURNER



- EXTRA FUEL SAVINGS
- TROUBLE FREE OPERATION
- LUXURIOUS WARMTH PLUS CONVENIENCE
- INSTALLED IN A FEW HOURS

SEND YOUR NAME AND ADDRESS —ASK FOR FREE ECONO MISER FOLDER

GREEN COLONIAL FURNACE COMPANY

304 S. W. Third, Des Moines, Iowa

-FISH-

Fast frozen and ready to go. It's going to be a great winter for you fish lovers, so order your supply now. All new frozen fish—select stock—boxed for easy storing.

Herring, Silver, Large	50 lbs.	$ 6.50
Sheepshead (White Perch)	50 lbs.	7.00
Pickerel (Northern Pike)	70 lbs.	14.00
Suckers (Bay Fish), Large	50 lbs.	5.00
Yellow Perch, Select Large	50 lbs.	12.50
Walleye (Yellow Pike)	50 lbs.	17.50
Carp, Round, Large	50 lbs.	4.75
Carp, Headless and Dressed	50 lbs.	8.00
Fancy Lake Trout	50 lbs.	26.50
Bullheads, Skinned, Dressed	50 lbs.	16.50
Red Snapper	50 lbs.	20.00
Lutefish	50 lbs.	13.50
SILVER RED SALMON STEAKS	30 lbs.	13.50
SMELT (Famous Green Bay)	25 lbs.	5.50
Catfish, Headless and Dressed	50 lbs.	19.50
Steak Cod, Headless and Dressed	50 lbs.	12.50
Scaled & Dressed Hdls. Small Pike	20 lbs.	6.50
Boneless Rosefish	10 lbs.	3.10
Boneless Haddock	15 lbs.	5.50
Boneless Ocean Pike	10 lbs.	3.10
Boneless Northern Pike	10 lbs.	3.60
Smoked Bluefins	10 lbs.	2.50
Salt Flat Lake Herring	100 lbs.	22.00
Oysters, Per Gallon		6.00

Order from this ad. Discount 1c per lb. on orders of 100 lbs. or over, one or mixed varieties. Order as many boxes as you want. Prices F.O.B. Green Bay. No box charge. 36 years your friendly fish shipper.

MIDWEST FISH COMPANY

230-232 N. BROADWAY BOX 1166
GREEN BAY, WIS.

From the Basement to the Roof
Your
LOCAL HARDWARE DEALER
Can Supply Your Hardware Needs!

SUB-ZERO TEMPERATURES prevailed over the entire Midwest when this photo was taken in February, 1948.

WHEN FRIGID BLASTS STRIKE

Hy-Lines Keep Shelling Out Eggs!

Trade Mark Reg. U.S. Pat. Office

Protect next winter's egg production. Raise Hy-Line Chicks in 1949. Hy-Line flocks have demonstrated their ability to lay heavily under adverse weather conditions.

January and February, 1948, were exceptionally cold months here in the Midwest. Sub-zero cold snaps followed one another, week after week. But Hy-Line production ranged from 50 to 85 percent on hundreds of midwestern farms.

HERE'S PROOF

Illinois egg contest records show that Hy-Lines laid far better than standard-breds. Here's the record:

Month	Rate of Lay	Standard Breeds Rate of Lay
Dec. 1947	63.3%	24.1%
Jan. 1948	65.7%	43.4%
Feb. 1948	71.0%	56.8%

Here's another important point: Hy-Lines completed the 1947-48 production year with a hen-housed average of 215.2 eggs per bird. Standard breeds averaged 157.1 eggs per bird. The difference is 58.1 eggs per bird in favor of Hy-Lines.

TRY HY-LINE CHICKS IN 1949

Share in the benefits that thousands are getting with Hy-Lines. Don't waste feed and time on laying flocks that slump seriously when the weather gets tough. Place your order for Hy-Line Chicks now.

• Write Today for Our New Hy-Line Chick Catalog

HY-LINE POULTRY FARMS

A Department of Pioneer Hi-Bred Corn Company

115 Eleventh St., Des Moines 9, Iowa

THESE HATCHERIES ARE HATCHING GENUINE HY-LINE CHICKS
BUY FROM THE HATCHERY NEAREST YOU

IN IOWA

Town	Name of Hatchery
Akron	Nelson Hatchery
Alexander	Alexander Hatchery
Buffalo Center	Grotewold's Farm Store
Clarinda	Farmers' Produce & Hatchery
Cedar Falls	Hurlburt Hatchery
Coon Rapids	Rippey-Miller
Council Bluffs	Council Bluffs Hatchery
Denison	Tenhulzen & Sons
Des Moines	Hy-Line Poultry Farms
Dyersville	Lammers Hatchery
Grinnell	Rudkin Hatchery
Indianola	Allen's Blue Ribbon Hatchery
Jewell	Jewell Hatchery
Lake Mills	Grotewold's Farm Store
LeMars	LeMars Hatchery
Malvern	Wilson Hatchery
Marcus	Dorr Hatchery
Marengo	Marengo Hatchery
Marion	The Gordon Hatchery
Mason City	Hy-Cross Hatchery, Inc.
McClelland	McClelland Hatchery
Mount Ayr	Prentis Hatchery
Mt. Pleasant	Baxter Hatchery
New Sharon	Goodman Hatchery
Rockford	Trettin Hatchery
Sac City	Sac City Hatchery
Schleswig	Tenhulzen & Sons
Sheldon	DeJong & Fedders Hatchery

IN IOWA (Continued)

Town	Name of Hatchery
Sibley	Houghton Hatchery
Sigourney	Biggs Hatchery
Spencer	DeKoster Hatchery
Washington	Washington Chick Co.
West Union	Buckley & Kretzinger

IN MINNESOTA

Town	Name of Hatchery
Alexandria	Paul Bunyan Hatcheries
Cokato	Oakwood Hatchery
Glencoe	Hy-Cross Hatchery
Owatonna	Hy-Line Hatchery
Redwing	Redwing Chick Co.
Sleepy Eye	Sleepy Eye Chick Co.
Stewartville	Stewartville Hatchery
Wells	Walnut Lake Hatchery

IN NEBRASKA

Town	Name of Hatchery
Lincoln	Roscoe Hill Hatchery

IN SOUTH DAKOTA

Town	Name of Hatchery
Sioux Falls	Sioux Valley Hatchery
Watertown	Lakeview Hatchery

IN ILLINOIS

Town	Name of Hatchery
Joliet	Corn Belt Hatcheries, Inc.

If no hatchery listed is in your community, write direct to:
Hy-Line Poultry Farms, 115 Eleventh Street, Des Moines 9, Iowa

The Farm Flock

POULTRY INDUSTRY is looking for a new term to replace the phrase "all-pullet flock." The term was intended to mean a flock with no old hens in it. But some folks have understood it as a boost for buying sexed chicks. Dr. R. E. Phillips, head of the Iowa State College poultry department, is one of the judges who will pick a new term from entries submitted by people in the poultry industry.

▲ ▲ ▲

HYDRATED LIME makes deep litter more absorbent, less inclined to cake. The Ohio experiment station recommends stirring lime into the litter at the rate of 10 to 15 pounds per 100 square feet of floor space. You can also use a rate of one pound per litter.

▲ ▲ ▲

NEW VACCINES have been developed to protect poultry from Newcastle disease. The vaccine cuts mortality sharply. But it's usable only under the direction of a veterinarian. Vaccinating is done any time after birds are four or five weeks of age, but before pullets start to lay.

▲ ▲ ▲

DROPPINGS PITS save labor in the poultry house, says Melvin Hawke, Cerro Gordo county, Iowa. You have to clean out the poultry house only once or twice a year—if you use a deep litter along with the droppings pits. Some poultrymen prefer crushed cobs for deep litter. Others use the cobs whole.

▲ ▲ ▲

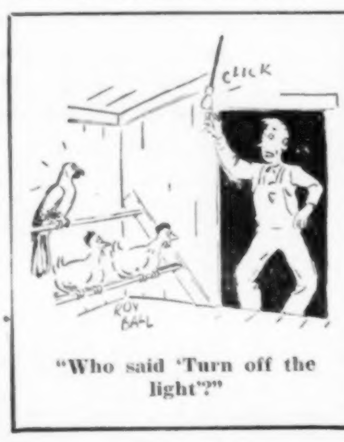
AUTOMATIC poultry waterers supplied by water piped into the poultry house cut down chores on the Maurice Akers farm, Franklin county, Iowa. What is more, they insure a steady supply of fresh water. That helps boost the number of eggs gathered daily.

▲ ▲ ▲

KEEP CULLING, even if the feed supply and prices are more favorable. Low-producing hens are expensive boarders. Put them in the fitting pen. Market prices for poultry meat are still high. If a hen won't pay for feed with eggs, she'll pay almost as well on the meat market.

▲ ▲ ▲

CHANGE your rubbers when leaving a pen where sick birds are kept. Don't risk carrying disease germs over to houses in which healthy hens are fed. This goes for visitors, too. A trained veterinarian won't go from sick pens to other flocks without changing or cleaning overshoes carefully.



"Who said 'Turn off the light'?"

Extra EGGS Extra PROFITS

Start now - Feed Your Hens VICTOR EGG GRANULES (Also Mash and Pellets)

Contain controlled amounts of essential minerals, proteins, carbohydrates and original vitamin sources — all in one proved and economical egg-making feed.

There is a complete line of VICTOR FEEDS

CRETE MILLS • CRETE, NEBR.

HENS DYING IN THE NESTS OR UNDER THE ROOSTS FROM NUTRITIONAL CAUSES

GIVE FOWLTON

Drinking Water Supplement

At the first sign of unthrifty birds, act quick! Don't take chances. In any type fountain. Dr. Jespersen's FOWLTON Concentrate is used by thousands. Prices—For 100 Hens, $2.75; 200 Hens, $5.25; 400 Hens, $9.75. Also for chicks of any age.

WORMS? LARGE ROUND AND CECAL WORMS

USE Dr. Jespersen's GETS-EM In the Drinking Water

In any type fountain, GETS-EM is safe for chicks and laying hens. Remove worms for better health, growth and vitality. Prices—for 200 Hens, $2.50; for 600, $4.75; for 1200, $9.00.

SEE YOUR JESPERSEN DEALER

If he is out, to save time we will ship FOWLTON or GETS-EM direct to you at above prices prepaid if check or M. O. with order—or C.O.D. and you pay delivery charges. Dealers wanted.

Dr. Jespersen's LABORATORIES Dept. W-121 SPENCER, IOWA

130 EGGS A DAY INSTEAD OF 23

Mrs. Wm. J. Turvey, poultry raiser in the far north state of Washington, tells an interesting story of increased egg production. She says:

"I have 178 chickens. In November their appearance was poor, and I was getting 19 to 23 eggs a day. I started giving Don Sung in their feed. Now, in December, I am getting 130 eggs a day, and my flock is livelier and looks much better. Surprised isn't the word—I'm really amazed at the change in my flock."

Will you do as well? We don't know. But we do know that you mustn't expect eggs from hens that are weak, under-vitalized and lazy. When flocks are deficient in manganese, vitamins and other essential elements which laying hens require, and which are necessary to pep-up egg production, Don Sung supplies these essential supplements. It does not force or hurt the hen in any way. Why not try Don Sung for your flock. Send 50c for a trial package (or $1 for large size holding 3 times as much) to Burrell-Dugger Co., 230 East South St., Dept. G, Indianapolis 4, Ind. Don Sung must show you a profit or your money will be refunded. Start giving Don Sung to your flock now.

WHITE LEGHORNS

Rocks, Reds, Orpingtons, Wyandottes, Minorcas, Austra-Whites. $12.90 Per 100 Prepaid

Assorted, Low as $4.95 per 100.

Also Sexed and Started Chicks

FREE CATALOG explains two-week replacement guarantee. U. S. Approved. U. S. Pullorum Controlled. R.O.P. Foundation Breeding

SCHLICHTMAN HATCHERY Appleton City, Mo.

ZEELAND Hatchery POULTS

Amazing profits with Hamilton Strain Super-Broad Breasts. Growers report 18 pound hens, 28 pound toms at 5½ months. Make 1949 your banner year—raise these Super-Broad Breasts for extra profits. Also Wagon Wheel Strain Broad Breasts, White Hollands and all other breeds. Poults Available Starting January 10th. Get the information on how to save by ordering now. Write

ZEELAND HATCHERY ZEELAND, MICH.

STOUFFER'S FAMOUS CHICKS

Pullorum controlled. Barred, White Rocks, Austra Whites, White Leghorns, New Hampshires, Giants. Catalog free. Immediate delivery.

STOUFFER'S HATCHERY LENA, ILLINOIS

YOURS WITHOUT EXTRA CHARGE

97% LIVABILITY in Official Tests by State Agencies, Nebr., Iowa, Ohio, Mo., to 2 to 3 weeks of age, under average farm conditions!

2 WEEKS FEED SUPPLY

Combine the best feed you can buy—any kind you prefer—with the world's most popular chicks! Available on early orders for Colonial's Best Egg Grade Chicks. Free Catalog brings details. Write today!

FREE

from COLONIAL World's Largest Chick Producer

Do you want BETTER CHICKS for LESS money? Do you want LAYERS? For 19 straight years more people have chosen Colonial Chicks for PROFIT than any other kind! World leadership in number of chicks produced shows prices and breeding are right!

Your Favorite Breed at Its Best
Pedigree Sired—Records up to 336 Eggs

Hens that set world records and won U. S. Egg Laying Contests have contributed their sensational blood lines to Colonial's breeding program. Colonial's best grade chicks give you a flock enriched with GENERATIONS of up to 336 egg blood.

WRITE For CATALOG and BEST CHICK Deal in Colonial's History

Our biggest savings yet on started and day-old pullets, chicks as hatched or sexed. Purebreeds or crossbreeds. Write now!

PULLETS LOW AS $13.90/100

COLONIAL POULTRY FARMS, Dept. 904, Pleasant Hill, Mo.

New Goose and Duck Feathers

Largest profit on your feathers. Ship to a pillow manufacturer established 18 years with plants in three major cities. Write for price list. Prompt remittance.

COLUMBIA BEDDING CO.
Dept. WF, 1750 N. Wolcott Ave., Chicago 22, Ill.

FEATHERS WANTED

Best prices paid for new Goose and Duck feathers. Used feathers—send sample for price. Checks mailed same day shipment received.

PROGRESS FEATHER CO.
657 West Lake Street Chicago 6, Ill.

BUY U.S. SECURITY BONDS NOW

For Better Profits

you must have TOP PRICES, correct weights and liberal grading. Karsten & Sons guarantee them. Also 24-hour remittance service. We have been serving raisers and shippers satisfactorily for over 50 years. Our sales outlets are the best; our cooler and handling facilities unexcelled. Every shipment, large or small, given personal attention. For better results, ship your poultry and eggs to

KARSTEN & SONS
1104 Fulton Market Chicago 7, Illinois

HIGHEST CASH PRICES

For new and used goose and duck feathers. Ship to

MIDWEST FEATHER CO.
2300 S. Calumet Ave. Chicago 16, Ill.

WALNUT *Prefabricated* VENSULATED **BROODER HOUSES**

SAVE TIME, MONEY, WORK PROTECT CHICK HEALTH

House your chicks without delay in a Walnut Brooder House. Hundreds of satisfied users. Insulation and controlled ventilation help keep house dry, healthful; promote fast, uniform growth. Assemble sections yourself, quickly, easily into a sturdy, neat, modern building. Ample head room. Save through prefabrication. Order from your Walnut dealer or write direct for free folder. Address Dept. W.

WALNUT VALUES
- Fast Delivery
- Easy Erection
- Roominess
- Good Quality
- Insulation
- Ventilation
- Fair Price
- Good Looks

FARM BUILDINGS AND HOMES FOR EVERY NEED

GBH-WAY HOMES, INC., Walnut, Ill.

ZERO FROZEN FRESH DAILY WINTER CATCH

A Real Treat For Your Family

Packed in DRY ICE in NEW DRY-ICE BOX-LINER

The finest, tastiest fish you ever ate—satisfaction guaranteed or money cheerfully refunded.

ORDER THIS "SAMPLE" BOX TODAY

10 lbs. Sablefish — 10 lbs. Red Rockfish
10 lbs. Haddock — 10 lbs. Ocean Pike
10 lbs. Flounders — ONLY
(Fins trimmed off) PRICE PER BOX $10.75
OR—will ship double this quantity for $21.00

If the above assortment does not appeal to you make up your own assortment for 50 POUNDS OR MORE of the fish listed below at the prices listed per pound

	PER LB.
Wall-eyed Pike (Round	31c
Wall-eyed Pike (Dressed	35c
NORTHERN PIKE, Dressed & Headless	21c
OCEAN PIKE, Dressed, Hdls. & Scaled	19c
RED ROCKFISH (Usr), Drsd. & Hdls.	19c
STEAK COD, Dressed and Headless	21c
PACIFIC WHITE LING, Drsd. & Hdls.	23c
HADDOCK, Dressed and Headless	23c
SABLEFISH, Dressed and Headless	25c
FLOUNDERS (Dressed and Headless	24c
HALIBUT (also Fins Trimmed off	35c

WRITE for large illustrated circular describing other varieties and assortments of delicious frozen, smoked and salted fish. Also explains how to get a Valuable Chromium Serving Platter FREE—over 17 inches long—AT NO EXTRA COST. OFFER LIMITED. WRITE NOW.

A. S. JOHNSON FISH CO.
1004 Garfield Avenue Duluth 6, Minn.
In this business for over 36 years.

100 LB. BOXES FOR HOLIDAYS **FISH** 4 CHOICE FROZEN VARIETIES

HEADLESS AND DRESSED FISH

20 lb. FLOUNDERS, 30 lb. STEAK COD, 30 lb. OCEAN PIKE, 20 lb. BULLHEADS — $22.00 ½ of order 50 lb. box $11.50

All other items listed below are 1½c a lb. less on a 50 lb. box of one variety; 1c less on a 100 lb. box.

Silver Herring, round, per pound 11c
Pike, dressed Walleye, 2 to 3 lbs. 32c
Pike, round, fancy, small, ¾ to 1 lb. 23c
Pickerel, Headless, dressed 22c
Halibut, Headless, dressed 35c
Salmon, Headless, dressed, Red 39c
Carp, round, No. 1 ..... 8c
Carp, Headless, dressed, No. 1 ..... 18c
Sheepshead, 2 to 3 lbs., White Perch 13c
Buffalo, Headless, scaled, dressed 22c
Bull Heads, skinned, dressed, Headless 30c
Northern Pike, Boneless, no waste, 20 lb. Box $5.80
Black Cod Sable, Headless, dressed 28c
Yellow Perch, scaled, dressed, 10 lb. box ... $3.00

Catfish, headless, dressed 35c; Smelts 20c; Suckers 8c; Lake Trout 48c; Eel 28c; White Fish, dressed 35c; Shrimp, 5 lb. box $3.00. Quick frozen boneless fish, cellophane wrapped in 10 lb. boxes: Ocean Perch $3.00; Ocean Pike $2.80; Northern Pike $3.00; Cod $3.00; Haddock $3.50; Lake Pike $6.00. Fresh Oysters, gallon $5.90. A 10 lb. box smoked White Fish $3.80; Fat Blue-$2.20; Trout Chunks $4.50; Carp Chunks $2.50; Chubs $3.50. Salted flat lake Herring, keg $18.00. Holland Herring, 9 lb. keg $2.15. Lutefisk, 50 lb. tub $9.00. All prices F.O.B. Green Bay. Guaranteed quality and service since 1899.

Wisconsin Fishing Co.
Dept. 4 — Box 184
GREEN BAY, WISCONSIN

TURKEYS AND POULTRY WANTED

Seventy-five Years of Service

Excellent sales outlets, and unlimited financial resources are our guarantee of satisfaction. Ship your dressed and live Turkeys, Chickens, Capons, Ducks, Geese, Veal and Eggs to us. Write for prices, shipping tags and dressing instructions.

COUGLE COMMISSION CO.
1133 W. Randolph St., Chicago 7, Ill.

Raise Early Chicks This Year

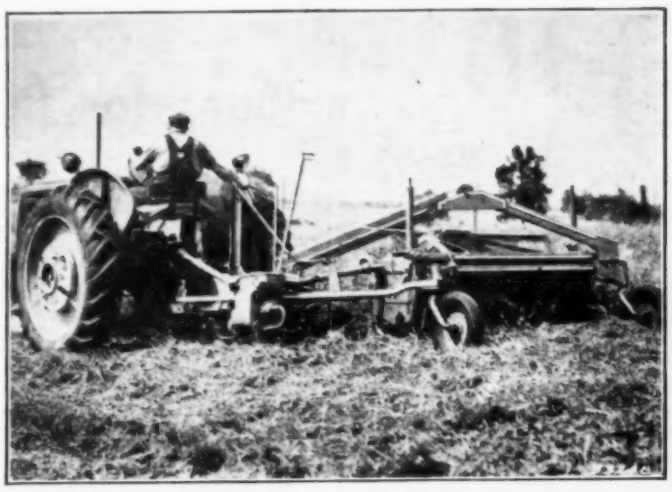
Chicks available in all popular breeds and crossbreds. Low prices for January, February Delivery. Inquire today. Beautiful 4-color catalog free.

ZEELAND HATCHERY ZEELAND, MICH.

The Next Time You're in Town Visit Your LOCAL HARDWARE DEALER

See the Wide Variety of Quality Hardware Supplies He Has to Help You!

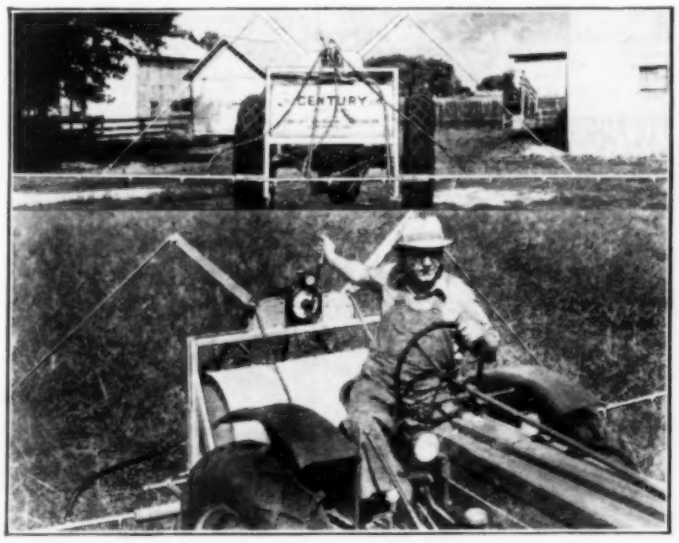
What's New?



Hay-Curing Time is said to be reduced one-half with this machine. It is a crusher that follows the mower bar and cracks the stems of the hay. Stems then cure as fast as the leaves. Rapid curing means better color, more leaves, and often it means that hay crops are saved from spoiling. Powered by a regular heavy-duty, two-plow, farm tractor. Made by John Bean Mfg. Co., Division of Food Machinery Corporation.

Baby Bottle that is disposable is now on the market. Made of a soft, pliable plastic, these bottles come sealed in sterile packages, and can be discarded when they are used. Bottles cost about a cent each. The disposable baby bottle is manufactured by the Shellmar Products Corporation.

New Jack moves wheels on tractor with little effort. Mounted on end of tractor axle, it is hooked to a chain which is rigged to the wheel. Can be used to move the tractor wheel either in or out. Will be found handy for other farm jobs, too. Hoist-Jack is made by the Coffing Hoist Company.



Control Panel for sprayers is operated from the tractor seat on this new unit. There is a pressure regulator and pressure indicator. One hand lever gives nine-way control of the flow of the liquid. The six-row boom is made in three sections, each fed by separate hose lines. Each is independently controlled from the master control. Made by Century Engineering Corp.

VICTOR

EGG GRANULES

(Also Mash and Pellets)

Contain balanced amounts of proteins, carbohydrates, minerals and original vitamin sources to stimulate a high yield of quality eggs — easily and economically.

See Your VICTOR Dealer Today And Get the Proof!

CRETE MILLS • CRETE, NEBR.

SAVE LABOR

with MULKEY'S *NEW* Improved* (5½ in. Straight-Sided) All-Steel PORTABLE* BALANCED ELEVATOR for
- EAR CORN
- Baled Hay, Etc.

17½ ft. Maximum Lift 24 ft. Long

8' Standard or Reverse-Action Hopper Available

★ One man can handle and operate.
★ New winch assembly easily raises elevator.
★ 8' & 14' Extensions. ★ Clutch & Brake (extra cost)

Write for FREE Literature and Prices

SAM MULKEY COMPANY
1621-G Locust St. Kansas City 8, Mo.

Minerals Now Go So Much Farther

Save money, make money, with

HASTINGS all-metal Mineral Feeder

Wonderful for minerals and tankage, for feeds and mashes in individual pens, sow with litter, etc. Saves work. Avoids loss of high priced minerals, feed. Long-life galvanized sheet steel. Tapered hopper avoids clogging. Improved trough covers keep out weather, rats, poultry. Adjustable feed flow. 4½ bu. 42" high. Proved 10 years. Hundreds used.

WRITE for low price if your dealer doesn't handle.

HASTINGS EQUITY GRAIN BIN MFG. CO.
Dept. W-12 Hastings, Nebr.

NEW *Duplex* HYDRAULIC SCOOP AND REVERSIBLE BULLDOZER & SNOWPLOW

For hydraulic equipped tractors. Hand lift model also available.

With this hydraulic scoop, you can dig, deliver, place more dirt faster, easier.

Write Today for Details and Literature
DUPLEX MANUFACTURING CO., Dept. A-3
21st and Locust Sts., East Omaha, Nebraska

98% PURE CROP—90% GERMINATION

RED CLOVER

At a GUARANTEED SAVING to You $23.95 BU.

Special Lot Leader, with some crop seed. Also have Mammoth and Certified Midland Red Clover. Alsike $20.85. Sweet $10.80. Alsike and Timothy mixed $8.95. 166 grades and varieties of farm seeds. Alta Fescue, Reed Canary, Brome, New Oat varieties, etc. Hybrid Corn $4.75 bu. Big Savings and Satisfactory Quality GUARANTEED. FREE Catalog and Samples. Write today for best values.

BERRY SEED CO. Box 104D Clarinda, Iowa

Cloverly Stock Farm

Aberdeen-Angus

DISPERSION!

Sale Pavilion

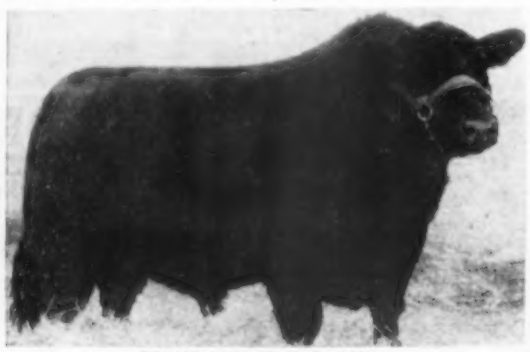
Mount Ayr, Ia., Thurs., Dec. 9th

Sale starts at 10:00 A. M.

+ 112 Lots +

47 Grand Cows with Big, Lusty Calves
28 Young Cows Mated to Herd Bulls
14 Excellent Bred Heifers
16 Attractive Open Heifers
7 Bulls — 3 Herd Sires — 4 Young Bulls

A complete Dispersion of the late M. G. O'Connor herd, known as Cloverly Farms, established in 1921, and later was a partnership with Charles M. Anderson, which was dispersed in 1944. The nephew, Maurice G. O'Connor, Jr., owned a herd in partnership with William H. Bickel, Mt. Ayr, Iowa. In December, 1946, Maurice Jr. returned from service and promptly made a division of the cattle he and Bickel owned and established a herd, **O'CONNOR FARM**, Maloy, Iowa. Later Mr. and Mrs. M. G. O'Connor and their nephew, Maurice Jr., formed a partnership under the name **CLOVERLY STOCK FARMS.** The untimely death of M. G. O'Connor October 30th makes this dispersion necessary.



PRINCE ERALAN H. P. 141st

The 3 herd bulls sell, **Prince Eralan H. P. 141st**, the top bull at 1947 Heart of America sale, selling for $4,000. A grandson of Black Prince of Sunbeam; **Bar Prince 6th of Sunbeam** by Bar Sunbeam 2d. Dam by Black Prince and **Prince Erica 2d of Archland** and 4 young bulls by Bell Boy of Cloverly 11th. 47 grand cows with calves, most all are rebred to above bulls. 28 young cows mated and 14 heifers that are bred. 16 beautiful open heifers. Breeding and quality that will please. Remember a Dispersion always offers bargains. All T.B. and Bangs tested, calf herd vaccinated strain 19, clean, can go anywhere.

BAR PRINCE 6th OF SUNBEAM

Plan to attend. Ask for **FREE** catalog. Please mention this publication. Address all inquiries to

ABERDEEN-ANGUS JOURNAL, Box 238, WEBSTER CITY, IOWA

Mrs. M. G. O'Connor, Executrix, Blockton, Iowa
Maurice G. O'Connor, Jr., Sale Mgr., Maloy, Iowa

Auctioneer, Roy Johnston M. T. White, Fieldman

Polled Hereford DISPERSION

Comfortable sale pavilion, only 70 miles south of Des Moines on Highway No. 65 at

Humeston, Ia., Friday, Dec. 17th

75 HEAD — 4 BULLS, 71 RICHLY BRED FEMALES

A complete Dispersion of the **C. H. SCHECTER & SONS**, which was caused by the untimely death of the late C. H. SCHECTER. This herd has been established for many years, where they have bred good **Polled Herefords.** The offering includes the herd sire, **DOUBLE BULLION 3rd**, bred by Wm. Van Heukelom, and 3 choice young bulls of serviceable age. There are 25 grand breeding cows, good ages, with calves at side, most all ready to wean, many are sired by **ADVANCE MISCHIEF 12th** 3618197-180394. Five cows well forward in calf, 16 desirable bred and open heifers. A well bred offering, recorded in both Associations. Cattle sold in just average breeding condition, all to the advantage of the buyers. Remember, a **DISPERSION** always offers bargains. All T.B. and **Bangs** tested, individual health papers furnished. Plan to attend. Ask for **FREE** catalog. Please mention this publication. Address

DONALD J. BOWMAN, Sale Mgr., HAMILTON, MO.

Auctioneer, Fred Chandler J. E. Halsey, Fieldman

Complete Dissolution Sale

AberdeenAngus Cattle

At Madison County Auction Barn, just east of town on Highway No. 169

Winterset, Iowa, Monday, December 13th

62 LOTS—5 GOOD BULLS, 57 CHOICE FEMALES

The cattle will be presented in breeding condition, just off the pasture, hence to the advantage of the prospective buyers. The bulls include **RUBY BENZ 7th OF McM.**, a choice son of **Erica Benz**, sire of the 1940 International Champion **4-H** Club Angus steer. He was bred and raised in our herd and shown by Lisle Mullins, a son of one of the owners. He was also 1st in **4-H** at Iowa State Fair and Reserve Champion at Ak-Sar-Ben. The Dam of **Blackie of McM.**, and our herd bull, **RUBY BENZ 7th OF McM.** we offer 3 full sisters and one half brother. The other herd bull is **CONNE BURGESS BAILIFF**, by Blackbird's Bailiff out of Miss Burgess. Two good herd sires and 3 younger bulls. The progeny of the herd sires will please. The females include 25 grand cows . . . 6 have calves at side, others forward in calf; 8 splendid bred heifers; 10 open heifers and 8 1948 calves which are weaned. Breeding and quality will please. Plan to attend. Ask now for **FREE catalog.** Kindly mention this publication. Address all inquiries to

ABERDEEN-ANGUS JOURNAL, WEBSTER CITY, IOWA

McCall and Mullins, Owners

G. W. Mullins, Earlham, Ia., H. V. & Helen McCall Huntoon, Winterset, Ia.

Auctioneer, Roy Johnston M. T. White, Fieldman

AUCTIONEER

Successful sales for leading breeders, lifetime experience with livestock. Apply early, as I am busy during the season. Rates reasonable. Telephones, Residence 7-3645; Business 3-6181.

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Coming Livestock Sales

ABERDEEN ANGUS

Dec. 9—Cloverly Stock Farm, O'Connor & O'Connor (Dispersion), Blockton, Iowa, at Sale Pavilion, Mt. Ayr, Iowa.
Dec. 13—McCall & Mullins (Dissolution), Winterset, Iowa.
Feb. 10-11-12—National Memorial Building Fund Sale, Chicago, Ill.
Feb. 21—Central Illinois Breeders Bull Sale, Congerville, Ill.; S. E. Lantz, Secy.
Mar. 1—Penney & James, Hamilton, Mo.
Mar. 2—North-Central Missouri Breeders, Chillicothe, Mo.; Lewis Anderson, Secy.
Mar. 3—Northeast Missouri Breeders, Memphis, Mo.; W. R. Dierks, Secy.
Mar. 8-9—Iowa State Show and Sale, Des Moines, Iowa; Gerald Parks, Secy., Ames, Iowa.
Mar. 14—Interstate Association's Show and Sale, Sioux City, Iowa; P. K. Pratt, Secy., Walnut, Iowa.
Mar. 16—Bureau County Breeders, Princeton, Ill.; Forrest Olson, Secy., Wyanet, Ill.
Mar. 21—Otto G. Nobis, Davenport, Iowa.
Mar. 22—Goose Creek Farms, Nau & Son, Bar-H Farms and Twin Knoll Farms, Columbus Jct., Iowa.
Mar. 23—Mercer County Breeders, Aledo, Ill.; Hugh McWhorter, Secy.
Mar. 24—Frank Bradley & Sons, Avon, Ill.
Apr. 26—John D. Warin, Maloy, Iowa.
Mar. 31—Tallcorn Breeders Assn., Marshalltown, Iowa; C. G. Mason, Secy., Box 243.

HEREFORDS

Jan. 3-4—Sioux City, Iowa; Iowa Hereford Cattle Breeders Assn., F. W. Ketelsen, Everly, Iowa, Secy.
Jan. 5—Ralph Hilyard, Cumberland, Iowa.
Jan. 5-6—East-Central Iowa Breeders Show and Sale, Davenport, Iowa; Roy Wiese, Mgr., Donahue, Iowa.
Jan. 8—Adel Hereford Sale, Adel, Iowa; Albert DeWitt, Mgr., Perry, Iowa.
Jan. 24-25—Iowa State Show and Sale, at Des Moines, Iowa; J. C. Holbert, Mgr., Box 492, Washington, Iowa.
Jan. 27—Bianchi Hereford Ranch, Macon, Mo.
Feb. 7—Creston Hereford Breeders, Orient, Iowa; Lloyd H. Woods, Sale Mgr., Creston, Iowa.
Mar. 10—West-Central Iowa Assn., Denison, Iowa; L. S. Curran, Mgr., Floyd, Iowa.
Mar. 12—Southeast Iowa Breeders Assn., Mount Pleasant, Iowa; N. K. Hartley, Secy., Hillsboro, Iowa.

POLLED HEREFORDS

Dec. 4—Lowell A. Crusius, El Paso, Ill.
Dec. 6—Iowa Polled Hereford Assn., Des Moines, Iowa; Leigh Curran, Secy., Mason City, Iowa.
Dec. 17—C. H. Schechter & Sons (Dispersion), Humeston, Iowa; Donald J. Bowman, Sale Mgr., Hamilton, Mo.
Feb. 16—Northwest Polled Breeders Assn., at Sioux City, Iowa; Ed Krise, Sale Mgr., Rock Rapids, Iowa.

SHORTHORNS

Jan. 11—Tri-State Breeders, Sibley, Iowa; Albert Hamman, Mgr., Rock Rapids, Iowa.
Jan. 31—Marshall County Show and Sale, Marshalltown, Iowa; Geo. H. Lewis, Mgr., Route 1, Marshalltown, Iowa.
Feb. 8—Helm Bros. (Dispersion), Corwith, Iowa; at Webster City, Iowa; Merv. F. Aegerter, Sale Mgr., Seward, Neb.
Feb. 16—34th Annual Spring Show and Sale, South Omaha, Neb.; Merv. F. Aegerter, Mgr., Seward, Neb.
Mar. 1—Illinois State Sale, Normal, Ill.; Hal Longley, Mgr., 16 S. Locust, Aurora, Ill.
Mar. 7-8—Interstate Shorthorn Breeders, Sioux City, Iowa; F. E. Jackson, Mgr., Hurley, S. D.
Mar. 11—North Iowa Breeders, Mason City, Iowa; Merv. F. Aegerter, Mgr., Seward, Neb.
Mar. 14-15—Iowa State Show and Sale, Des Moines, Iowa; Chas. Garden, Mgr., R. 6, Des Moines, Iowa.
Mar. 16—Missouri State Sale, Sedalia, Mo.; Merv. F. Aegerter, Mgr., Seward, Neb.
Mar. 18—Breeders Sale, Abingdon, Ill.; Hal Longley, Mgr., 16 S. Locust, Aurora, Ill.
Mar. 28—Northwest Missouri Breeders, Maryville, Mo.; James Meyer, Sale Mgr.
Mar. 29—Sioux Empire Shorthorn Club, Sioux Falls, S. D.; Al Halverson, Secy., Box 841, Sioux Falls, S. D.
Apr. 4—Southwest Iowa Breeders, Red Oak, Iowa; Malcolm D. Lomas, Secy.

POLLED SHORTHORNS

Feb. 15—Hawkeye Downs Annual Show and Sale, Cedar Rapids, Iowa; Earl S. Girton, Sale Mgr., Box 282, Marshalltown, Iowa.
Feb. 17—34th Annual Spring Show and Sale, South Omaha, Neb.; Merv. F. Aegerter, Sale Mgr., Seward, Neb.
Mar. 14—North Iowa Breeders, Spencer, Iowa; E. S. Girton, Mgr., Marshalltown, Iowa.
Mar. 19—Illinois State Sale, Normal, Ill.; Hal Longley, Mgr., 16 S. Locust, Aurora, Ill.

MILKING SHORTHORNS

Dec. 30—Adolph Nehmelman, Mason City, Ill.; sale at Springfield, Ill.

DAIRY CATTLE

Dec. 4—"Parade of Holstein Bulls," Show and Sale, Waterloo, Iowa; Claude E. Wylam, Mgr., Waverly, Iowa.
Dec. 13—Carleton D. Beh Farms (Brown Swiss), Des Moines, Iowa.

BERKSHIRES

Feb. 15—W. H. Zeisness & Son, Colo, Iowa.
Feb. 18—Robert M. Jacobsen, Hancock, Iowa.

CHESTER WHITES

Feb. 7—Ross O. Willey & Son, Onawa, Iowa; sale at Sioux City, Iowa.
Feb. 10—Roy V. Copp, Glidden, Iowa.
Feb. 11—C. T. Keen & Sons, Legrand, Iowa.
Feb. 18—E. A. Riemenschneider, Kingsley, Iowa.
Feb. 19—Albert H. Stuart, Newhall, Iowa.
Feb. 21—R. F. Held & Sons, Hinton, Iowa; sale at Sioux City, Iowa.
Feb. 22—Westcott Bros., Denison, Iowa.

DUROC JERSEYS

Jan. 19—Ernest L. McDermott, Wiota, Iowa.
Jan. 25—Iuhl Bros., Luverne, Minn.
Jan. 26—Bert Broek & Sons, Sioux Center, Iowa.
Feb. 7—Elmer Willey, Vincent, Iowa.
Feb. 11—Walter Riebelsell, Calumet, Iowa.

HAMPSHIRES

Jan. 29—Fruehauf Farms, Inc., Cedar Rapids, Ia.
Feb. 21—Matt Locatis & Sons, Ft. Dodge, Iowa.

SHEEP

6—International Hampshire Bred Ewe Sale, Oskaloosa, Iowa; Perry Ewing, Jr., Columbia, Mo., Mgr.
8—Oskaloosa Sheep Breeders Bred Ewe Sale.
8—North American Suffolk Bred Ewe Sale, Oskaloosa, Iowa; Perry Ewing, Jr., Columbia, Mo., Mgr.
16—Southeast Iowa Sheep Breeders Ewe Sale, Ottumwa, Iowa; Kenneth Coltrain, Pres., Moravia, Iowa.
22—Mahaska Sheep Breeders Assn., Ewe Sale, Oskaloosa, Iowa; Wilber Colville, Secy., Cedar, Iowa.

LIVESTOCK FIELDMEN

M. T. WHITE, 604 No. Fortieth St., Omaha, Nebraska. Phone Walnut 1056.
J. E. HALSEY, 1912 Grand Ave., Des Moines.
M. W. BONEY, Box 740, Storm Lake, Iowa; Phone 970-R.

We publish the **FIRST** and **THIRD** Saturday of every month. Copy for livestock advertising must reach our office **FIFTEEN** days before date of issue.

The Midwestern Holstein Sale, Omaha, Neb., October 26, with H. C. McKelvie and Claude E. Wylam as co-managers, was successful. Elm Grove Imperial May, from the Dr. L. A. Snavely farm, topped the sale at $1,060. Elmgrove Hazelwood Mabel brought $935. Both went to Father Flanagan's Boys Home, at Boys' Town, Neb. The 29 females averaged $456.89, with six bred heifers at $296.66, eight open heifers at $303.75, and three bulls at $353.33. The 46 lots made a general average of $403.25.

Around the Farm AND IN THE Feed Lot

by HOWARD MARSHALL

OLD MAN WINTER is upon us. The old pump handle, the bushel basket, and other metal equipment feel pretty cold these early December mornings. It won't be long before the ice will be thick on the hog troughs and the snow will be pretty deep behind the cattle shed. And when it comes to thawing out those pipes and shoveling out those lanes, there will be plenty of us wishing again for the "Good Old Summertime."

SPEAKING about the weather, reminds us about the old Farmer's Almanac in which our granddads had so much faith. The Almanac has been forecasting weather for nigh onto 160 years now, and, altho it hasn't been right all the time, it is, nevertheless, encouraging to note that for this winter it promises somewhat milder readings. Let's hope it's right about that.

AGRICULTURAL ENGINEERS have a few cold weather tips to offer, especially in regard to insulation. They say proper insulation helps assure better ventilation, and that's important both to livestock and poultry health and profit. At Ames, use of insulation has minimized temperature changes in poultry houses so much that hens produced an additional 24 eggs each, and did it with less feed. Lining interior walls and ceiling with insulating building board is recommended.

WE BELIEVE THAT extra caution should be used this year to see that brood sows do not receive too much corn in their feeds. Brood sows, of all animals, need feeds which are properly balanced. Some of the livestock men of Marshall county, who balance their feeds with Walnut Grove Minerals, include C. J. Mann, T. J. Southard, Ralph Henze, C. B. Bartlett, Chauney Bryant, Earl Hurto and Leroy Krampe. These men secure their Walnut Grove Minerals through John McMahon and his son, Marvin, who represent us in that territory.

DELEGATES ATTENDING the Iowa Farm Bureau livestock conference in Des Moines last month heard optimistic reports on 1949 livestock prospects. An American Meat Institute official predicted continued high consumer demand, while other speakers felt government spending, ample feed supplies and the workingman's desire for meat will mean another good year ahead for hog, cattle and lamb feeders.

FARMERS at the Des Moines meeting also heard some interesting figures on marketing costs. It was reported that one-seventh of all farm marketing costs are in transporting the products. Rail rate increases since 1946 have amounted to some 44 per cent, and the carriers are seeking still more increases.

THERE IS NOTHING that can beat a nice bunch of fall pigs ready for market in the spring. That money comes in mighty handy at that time of year, so be sure to keep your fall pigs properly sheltered and properly fed. Walnut Grove Minerals are very valuable in feeding these fall pigs. In the northeastern part of Iowa, in Allamakee, Fayette and Clayton counties, some of the livestock men who use Walnut Grove in their feeds include Reuben and Martin Stock, brothers on two farms, Don Flage, Earl Roffman, Lyle Aanes, Clifford Olson and Virgil Heins. Our representative in that territory is Art Schultz, of Postville.

AMONG THE 15,000 or more FFA boys attending the 20th annual meeting of the Future Farmers of America, held in Kansas City a few weeks ago, were some 500 Iowans. And among the Iowa boys in attendance was a lad recently arriving from France. He is Jean Lebrat, who hails from a French farming area, and now makes his home on the Charles Slessor farm near Reinbeck. Jean recently was initiated as a Greenhand into the Reinbeck chapter. He likes America "swell."

WE ARE STILL LOOKING for a few additional good men to represent Walnut Grove in several Iowa areas. Selling our product is an opportunity both for profit and for service. It is pleasant work, too, in that it keeps our men in touch with the progressive livestock men in their community.

THE WALNUT GROVE PRODUCTS Company has never hesitated to put into its minerals the ingredients which have proved valuable and which are necessary in the production of good livestock. This policy will always be followed. We are firm believers in quality. In Adair county, men who use Walnut Grove in their livestock feeding rations include W. A. Kluever, Merle Chestnut, Ralph Kingston, Clarence Gruber, Ray Marckmann and E. O. Schuler. Our representative in this territory is Ford Dorsey, of Greenfield.

HISTORY REPEATED ITSELF, after a fashion, at the International Livestock Show, which has just closed. Back in 1900, when the first "International" was held in Chicago, R. F. Constant, of Buffalo Hart, Illinois, was an exhibitor. This year, Constant was in the competition for blue ribbons again—and in a big way. He had three carloads of Hereford steers entered in the fat stock show.

VALUE OF DAIRY HERD testing was brought out this fall in a summary of Iowa's Dairy Herd Improvement work. Cows in the state's 1,800 or more herds which are now being tested for production averaged 333 pounds of butterfat and 8,400 pounds of milk, compared with Iowa's average of 200 pounds of fat and 5,000 pounds of milk per cow. In the past 20 years, the work has increased returns an average of about $35 per cow in the herds tested.

IN OUR OPINION, the best way to make use of the huge corn crop produced this year, and at the same time increase the meat supplies, is by cutting down on pig losses. Every pig that is saved and kept healthy will provide an "on-the-farm" market for that corn. What's more, if employment continues at high levels, the corn which is marketed through hogs is bound to bring a favorable return. Our fall pig crop is the largest we have had in years. Let's save all the pigs we can by careful feeding and housing.

THE SPRING PIGS that you will raise next year will depend a great deal upon the sire, so it is a good plan to see to it that he has proper feed and attention. Walnut Grove Minerals will play an important part in keeping the sire in thrifty condition. Walnut Grove livestock feeders of Monona county, Iowa, among many others include Herman Rush, Ervin and Walter Jahn, brothers on two farms, Edwin Clausen, Harold Eggen, Clarence Bushman and John Jensen. These men receive their Walnut Grove Minerals through our agent in that territory, Erick Mesenbrink.

CRIB FEEDERS are one of the newer farm structures getting the emphasis now. Crib feeders are portable and can be loaded right from the field and moved from one feed lot to the other. Labor efficiency experts claim the crib feeders will reduce man hours for hog feeding by as much as 50 to 90 per cent.

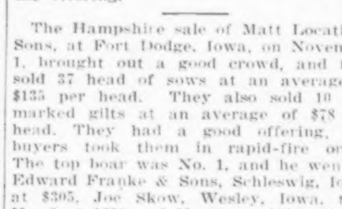
THE VALUE OF PIGS was seen again when Leroy Mickelson, a Perry farmer, got five of his Durocs back—but not until 20 men had aided in their return, and a couple of hundred yards of dirt were moved. The five wayward porkers entered a drain tile which led through a neighbor's farm. The pigs' unwillingness to back up complicated things. Finally, after an opening in the drain was made, a dog drove the pigs through, right smack into Mickelson's waiting arms.

Livestock News

A large crowd was present at Maryville, Mo., on November 15, for the Aberdeen-Angus dispersion sale of S. H. Standley & Son, Gentry, Mo. The feature attraction of the auction was their great three-year-old herd bull, Eric Revolution H., a son of Revolution's Bell Boy and out of a Burgomaster 6th dam. After a spirited bidding contest, he went to the bid of Walter E. Sturm, Ravenwood, Mo., at $2,500. He is regarded as one of the very best herd bulls that has gone thru an auction this year. Thirty-eight head of cows with calves at foot sold for a $520 average; many of the calves were sold separately from the cows. Thirty-nine open heifers averaged $347. The top of the females was Lot 69, Edwina of Eagleville 2d, a daughter of Eileenmere 617th, and she went to Chet Myrick & Sons, Stanberry, Mo., at $1,600. The second top was a McHenry Barbara heifer, Lot 72, selling for $1,225 to Ed Myrick & Son, Stanberry, Mo. Other buyers who made several selections were Frank McKinney & Son, King City, Mo.; David Compton, Lamoni, Iowa; Zimmerman & Son, Maryville, Mo.; J. R. Smith, Lamoni, Iowa; E. H. Craft, Elona, Kan.; Leo Lake, Orient, Iowa; E. L. Osborn & Son, Clarinda, Iowa; Leo Archer, Conception, Mo.; Robert Bixby, Lamoni, Iowa; Dave Thompson, Lamoni, Iowa; Lloyd Horton, Stanberry, Mo.; A. B. Thompson, Lamoni, Iowa; Rose & McCrea, Maryville, Mo. Cols. Roy G. Johnston and Ray Sims sold the offering.

The Hampshire sale of Matt Locatis & Sons, at Fort Dodge, Iowa, on November 1, brought out a good crowd, and they sold 37 head of sows at an average of $135 per head. They also sold 10 off-marked gilts at an average of $78 per head. They had a good offering, and buyers took them in rapid-fire order. The top boar was No. 1, and he went to Edward Franke & Sons, Schleswig, Iowa, at $305. Joe Skow, Wesley, Iowa, took No. 3 at $250 and No. 19 at $255. Walter De Bower, Schuyler, Neb., secured No. 20 at $250 and No. 20X went to J. E. Swanick, Mandan, N. D., at $210. No. 8 went to Edwards & Wilcox, Humboldt, Iowa, at $195, and No. 34 went to Howard Nelson, Aurelia, Iowa, at $155. Duane Holey, Sac City, Iowa, got No. 4 at $160, and Hensdorf Farms, Farragut, Iowa, secured No. 14 at $165. It was a good sale, but they had a good offering. Col. John Hall did the selling.

The Milking Shorthorn sale at Omaha, Neb., October 29, under the management of H. C. McKelvie, was successful. The Morris dispersion attracted attention. Lot 36 sold for $540 to J. T. Pawsey, Nettleton, Mo., and her heifer calf sold for $185. Her bull calf, a year old, sold for the top of $510, going to Pawsey. Morrisdale Red Maid brought $520, and was secured by Vern Young, of Kearney, Neb. Her heifer sold for $260 to Herb Jens, Hancock, Iowa. The Morris nine head averaged $513.33. A. C. Wiese, of Manson, Iowa, presented a nice consignment. His top bull, Lot 1, went to R. E. Moyer, Percival, Iowa, at $500. The entire sale of 14 females averaged $516, with the bred cows and heifers at $327 and 25 bull and heifer calves at $165 each. The seven serviceable bulls averaged $416, and the 54 lots made a general average of $356.11.



• Excellent educational and descriptive material on these subjects is offered to you by advertisers in this issue. Write direct to the manufacturers whose advertisements appear on these pages for your copy of this information.

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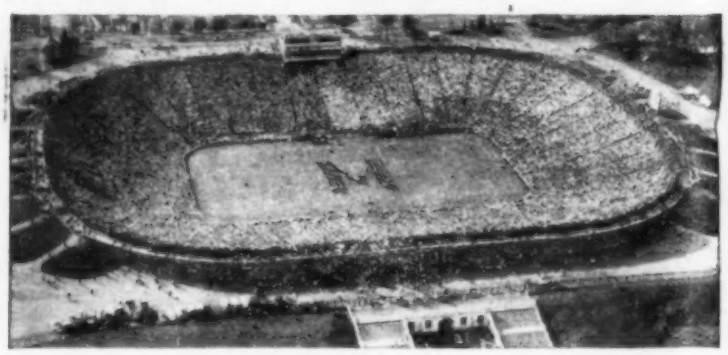
What makes it tick?

You can't expect a clock to work if you take it apart. The springs and wheels must all work together to make it tick. Likewise, the "springs and wheels" within our organization must all work together to bring you and the nation the petroleum products you need so urgently.

1. WORKING TOGETHER are these men and the more than 46,000 other employees of this company and its subsidiary companies. They are breaking all records for the production and sale of crude oil and finished products. Last year their wages and benefits averaged over $4,000 each—also a record. Each one of them is backed by an average investment of $25,000 in tools and equipment.



2. NINETY-SEVEN THOUSAND stockholders—more people than it takes to fill the giant University of Michigan stadium at Ann Arbor—own Standard Oil. Money provided by these owners creates jobs and the capacity to produce. No one man or woman among them owns as much as 1% of the stock. Of the institutional owners, which include 167 colleges, no one owns as much as 5%.

3. WE ALL DEPEND on the thousands of independent service station operators and other distributors who handle our products. Also important are the suppliers from whom we buy everything from crude oil, steel pipe and tank trucks to calculating machines, stencils and typewriter ribbons. And of course, we and the people who use our products depend on each other.

4. AT REFINERIES like the one above, we are working harder than ever to help meet your huge demand. Last year, in part by borrowing and use of earnings, we spent over twice our net profit for new facilities to increase output. This year, again, the thousands of people who make Standard Oil tick are working together, to bring you still more of the petroleum products you want.

Standard Oil Company

(INDIANA)

STANDARD

STANDARD SERVICE